ADAMS County, Washington

| Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | |
|--|------------------|----------------|-------------------------------|--------------------------------|-------|--------------|--------------------------|-------------------|------------------------|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | |
| 46 | 46.859 | 50.940 | LINCOLN County, Washington | EAST KEYSTONE, WA | M0 | East | 27.2208 | 4.081 | 140,421 | |
| | | | C | | | West | 66.9875 | 4.081 | 345,561 | |
| | 50.940 | 52.740 | EAST KEYSTONE, WA | WEST KEYSTONE, WA | M0 | East | 27.2124 | 1.800 | 61,909 | |
| | | | | | | West | 66.9799 | 1.800 | 152,381 | |
| | 52.740 | 57.808 | WEST KEYSTONE, WA | EAST TOKIO, WA | M0 | East | 27.1733 | 5.068 | 174,057 | |
| | | | | | | West | 66.9329 | 5.068 | 428,736 | |
| | 57.808 | 59.493 | EAST TOKIO, WA | WEST TOKIO, WA | M0 | East West | 27.0590 66.7954 | 1.685 1.685 | 57,627 142,253 | |
| | 59.493 | 68.300 | WEST TOKIO, WA | EAST ESSIG, WA | M0 | East West | 27.1529 | 8.807 8.807 | 302,244 | |
| | 60.200 | 70.200 | | | | | 67.1646 | | 747,622 | |
| | 68.300 | 70.300 | EAST ESSIG, WA | WEST ESSIG, WA | M0 | East West | 27.2170 67.3861 | 2.000 2.000 | 68,799 170,339 | |
| | 70.300 | 72.527 | WEST ESSIG, WA | EAST PAHA, WA | M0 | East West | 27.2170 67.3861 | 2.227 2.227 | 76,608 189,672 | |
| | 72.527 | 74.214 | EAST PAHA, WA | WEST PAHA, WA | M0 | East West | 27.2171 67.3856 | 1.687 1.687 | 58,032 143,680 | |
| | 74.214 | 84.907 | WEST PAHA, WA | SAND, WA | M0 | East West | 27.2173 67.3657 | 10.693 10.693 | 367,839 910,442 | |
| | 84.907 | 90.760 | SAND, WA | BEATRICE, WA | M1 | East West | 13.6032 33.6763 | 5.853 5.853 | 100,631 249,125 | |
| | 84.907 | 90.760 | SAND, WA | BEATRICE, WA | M2 | East West | 13.6032 33.6763 | 5.853 5.853 | 100,631 249,125 | |
| | 90.760 | 99.448 | BEATRICE, WA | CUNNINGHAM, WA | M1 | East | 13.6023 | 8.688 | 149,364 | |
| | | | | ,,,,, | | West | 33.6747 | 8.688 | 369,775 | |
| | 90.760 | 99.448 | BEATRICE, WA | CUNNINGHAM, WA | M2 | East | 13.6023 | 8.688 | 149,364 | |
| | ,,,, | | | | West | 33.6747 | 8.688 | 369,775 | | |
| | 99.448 | 104.367 | CUNNINGHAM, WA | FRANKLIN County, Washington | M0 | East | 27.1986 | 4.919 | 169,099 | |
| | | | | | West | 67.3364 | 4.919 | 418,644 | | |

ADAMS County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | S* 0 | TOTAL |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 72.61 | 9.6 | 0.00 | 72.61 |
| Carbon Monoxide | 27.4 | 207.25 | 27.4 | 0.00 | 207.25 |
| Nitrogen Oxides | 172.5 | 1304.77 | 172.5 | 0.00 | 1304.77 |
| Particulates | 6 | 45.38 | 6 | 0.00 | 45.38 |
| Sulfur Dioxide | 16.3 | 123.29 | 16.3 | 0.00 | 123.29 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

BENTON County, Washington

| | | | | Locomotive Fuel Rat | e Per GTM/Gallon: | 79 : | 1.2 | | | |
|--|----|---------|---------|---------------------|-------------------|-------------|-----------|---------|--------|---------|
| 161,882 | | | | | | Track | Direction | Million | | |
| Nest 161.1331 4.376 338.104 | 47 | 164.882 | 169.258 | | | M0 | East | | 4.376 | 130,956 |
| WA | | | | Washington | WA | | West | 61.1331 | 4.376 | 338,104 |
| West Canal Canal | | 169.258 | 171.124 | | | M0 | East | 23.6736 | 1.866 | 55,833 |
| 179,069 | | | | WA | WA | | West | 61.1249 | 1.866 | 144,160 |
| West 61.1122 7.945 613,671 | | 171.124 | 179.069 | | | M0 | East | 23.6662 | 7.945 | 237,649 |
| WA | | | | WA | WA | | West | 61.1122 | 7.945 | 613,671 |
| Nest 190.884 1 | | 179.069 | 180.543 | | | M0 | East | 23.6662 | 1.474 | 44,090 |
| 190.884 192.767 EAST PLYMOUTH, WEST PLYMOUTH, MO East 23.6904 1.883 56.381 | | | | WA | WA | | West | 61.1050 | 1.474 | 113,838 |
| 190.884 192.767 EAST PLYMOUTH, WATER PLANT, PLANT, PLANT, PLANT, PLANT, PLANT, PLANT, PROTOCH PLANT, PLANT | | 180.543 | 190.884 | | | M0 | East | 23.6662 | 10.341 | 309,318 |
| 192.767 202.514 WEST BERRIAN, WA EAST PLYMOUTH, MO East 23.7258 9.747 292.284 | | | | WA | WA | | West | 61.0981 | 10.341 | 798,553 |
| 192.767 202.514 WEST BERRIAN, WA EAST PLYMOUTH, MO East 23.7258 9.747 292.284 | | 190.884 | 192.767 | | | M0 | East | 23.6904 | 1.883 | 56,381 |
| West Color Color | | | | WA | WA | | West | 61.1882 | 1.883 | 145,624 |
| West Color Color | | 192.767 | 202.514 | WEST BERRIAN, WA | | M0 | East | 23.7258 | 9.747 | 292,284 |
| West 61.3195 1.443 111,835 203.957 215.077 West Yellepit, wa East Berrian, Wa West 61.3196 11.120 333,461 West 61.3196 11.120 861,822 215.077 216.983 East Yellepit, West Yellepit, Wamo East 23.7275 1.906 57,160 West 61.3316 1.906 147,748 216.983 227.661 West Hover, Wa East Yellepit, Mo East 23.8375 10.678 321,710 West 61.4665 10.678 829,549 227.661 229.280 East Hover, Wa West Hover, Wa Mo East 24.0394 1.619 49,191 West 61.6845 1.619 126,222 229.280 229.666 Sprs Jct, Wa End Sub, Wa Mo East 24.0410 0.386 11,729 West 61.6666 0.386 30,085 48 1.881 7.130 East Kennewick, East Vista, Wa Mo East 4.8842 5.249 32,403 West 7.1538 5.249 47,460 7.130 16.800 East Vista, Wa Badger, Wa Mo East 4.8786 9.670 59,626 West 7.1445 9.670 87,320 16.800 22.260 Badger, Wa East Kiona, Wa Mo East 4.871 5.460 33,656 | | | | | 1111 | | West | 61.3195 | 9.747 | 755,411 |
| West G1.3195 1.443 111,835 | | 202.514 | 203.957 | | WEST BERRIAN, WA | M0 | East | 23.7259 | 1.443 | 43,272 |
| West 61.3196 11.120 861,822 215.077 216.983 EAST YELLEPIT, WA WEST 61.3316 1.906 147,748 216.983 227.661 WEST HOVER, WA EAST YELLEPIT, MO EAST 23.8375 10.678 321,710 West 61.4665 10.678 829,549 227.661 229.280 EAST HOVER, WA WEST HOVER, WA MO EAST 24.0394 1.619 49,191 West 61.6845 1.619 126,222 229.280 229.666 SP&S JCT, WA END SUB, WA MO EAST 24.0410 0.386 11,729 West 61.6666 0.386 30,085 48 1.881 7.130 EAST KENNEWICK, EAST VISTA, WA MO EAST 4.8842 5.249 32,403 West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA MO EAST 4.8786 9.670 59,626 West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA MO EAST 4.8771 5.460 33,656 | | | | **** | | | West | 61.3195 | 1.443 | 111,835 |
| West 61.3196 11.120 861,822 | | 203.957 | 215.077 | WEST YELLEPIT, WA | | M0 | East | 23.7261 | 11.120 | 333,461 |
| WA 216.983 227.661 WEST HOVER, WA 216.983 227.661 WEST HOVER, WA 227.661 229.280 EAST HOVER, WA 227.661 229.280 EAST HOVER, WA 229.280 229.666 SP&S JCT, WA END SUB, WA West MO East 23.8375 10.678 829,549 West 61.4665 10.678 829,549 West 61.6845 1.619 126,222 229.280 229.280 229.666 SP&S JCT, WA END SUB, WA MO East 24.0410 0.386 11,729 West 61.6666 0.386 30,085 48 1.881 7.130 EAST KENNEWICK, EAST VISTA, WA WA West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA BADGER, WA MO East 4.8786 9.670 59,626 West 7.1445 9.670 33,656 | | | | | | | West | 61.3196 | 11.120 | 861,822 |
| West 61.3316 1.906 147,748 216.983 227.661 West Hover, Wa East Yellepit, Wa West 61.4665 10.678 321,710 West 61.4665 10.678 829,549 1.619 49,191 West 61.6845 1.619 126,222 229.280 229.666 Sp&s JCT, Wa END SUB, Wa M0 East 24.0394 1.619 126,222 229.280 229.666 Sp&s JCT, Wa END SUB, Wa M0 East 24.0410 0.386 11,729 West 61.6666 0.386 30,085 30,085 48 1.881 7.130 East Kennewick, Wa East Vista, Wa M0 East 4.8842 5.249 32,403 West 7.1538 5.249 47,460 47 | | 215.077 | 216.983 | | WEST YELLEPIT, WA | AM0 | East | 23.7275 | 1.906 | 57,160 |
| WA West 61.4665 10.678 829,549 227.661 229.280 EAST HOVER, WA WEST HOVER, WA MO East 24.0394 1.619 49,191 West 61.6845 1.619 126,222 229.280 229.666 SP&S JCT, WA END SUB, WA MO East 24.0410 0.386 11,729 West 61.6666 0.386 30,085 48 1.881 7.130 EAST KENNEWICK, WA WA MO East 4.8842 5.249 32,403 West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA MO East 4.8786 9.670 59,626 West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA MO East 4.8771 5.460 33,656 | | | | | | | West | 61.3316 | 1.906 | 147,748 |
| West 61.4665 10.678 829,549 227.661 229.280 EAST HOVER, WA WEST HOVER, WA MO East 24.0394 1.619 49,191 West 61.6845 1.619 126,222 229.280 229.666 SP&S JCT, WA END SUB, WA MO East 24.0410 0.386 11,729 West 61.6666 0.386 30,085 48 1.881 7.130 EAST KENNEWICK, EAST VISTA, WA MO East 4.8842 5.249 32,403 West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA MO East 4.8786 9.670 59,626 West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA MO East 4.8771 5.460 33,656 | | 216.983 | 227.661 | WEST HOVER, WA | | M0 | East | 23.8375 | 10.678 | 321,710 |
| West 61.6845 1.619 126,222 229.280 229.666 SP&S JCT, WA END SUB, WA M0 East 24.0410 0.386 11,729 West 61.6666 0.386 30,085 48 1.881 7.130 EAST KENNEWICK, WA WA WA WO East 4.8842 5.249 32,403 West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA M0 East 4.8786 9.670 59,626 West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA M0 East 4.8771 5.460 33,656 | | | | | | | West | 61.4665 | 10.678 | 829,549 |
| 229.280 229.666 SP&S JCT, WA END SUB, WA M0 East 24.0410 0.386 11,729 West 61.6666 0.386 30,085 48 1.881 7.130 EAST KENNEWICK, WA WA WO East 4.8842 5.249 32,403 West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA M0 East 4.8786 9.670 59,626 West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA M0 East 4.8771 5.460 33,656 | | 227.661 | 229.280 | EAST HOVER, WA | WEST HOVER, WA | M0 | | | | , |
| West 61.6666 0.386 30,085 48 1.881 7.130 EAST KENNEWICK, WA WA WA WEST West 4.8842 5.249 32,403 West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA M0 East West 7.1538 5.249 47,460 West 7.1445 9.670 59,626 West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA M0 East 4.8771 5.460 33,656 | | 229 280 | 229 666 | SP&S ICT WA | END SUR WA | MO | | | | |
| WA West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA M0 East West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA M0 East 4.8771 5.460 33,656 | | 227.200 | 227.000 | SI &S JCI, WA | END SOB, WA | NIO | | | | |
| WA West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA M0 East 4.8786 9.670 59,626 West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA M0 East 4.8771 5.460 33,656 | | | | | | | | | | |
| West 7.1538 5.249 47,460 7.130 16.800 EAST VISTA, WA BADGER, WA M0 East 4.8786 9.670 59,626 West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA M0 East 4.8771 5.460 33,656 | 48 | 1.881 | 7.130 | , | EAST VISTA, WA | M0 | East | 4.8842 | 5.249 | 32,403 |
| West 7.1445 9.670 87,320 16.800 22.260 BADGER, WA EAST KIONA, WA MO East 4.8771 5.460 33,656 | | | | WA | | | West | 7.1538 | 5.249 | 47,460 |
| 16.800 22.260 BADGER, WA EAST KIONA, WA MO East 4.8771 5.460 33,656 | | 7.130 | 16.800 | EAST VISTA, WA | BADGER, WA | M0 | | | | |
| | | | | | | | | | | |
| | | 16.800 | 22.260 | BADGER, WA | EAST KIONA, WA | M0 | | | | |

| 22.260 | 24.030 | EAST KIONA, WA | WEST KIONA, WA | M0 | East West | 4.8770 7.1436 | 1.770 1.770 | 10,910 15,981 |
|--------|--------|---------------------|------------------------------|----|--------------|------------------|----------------|------------------|
| 24.030 | 33.520 | WEST KIONA, WA | EAST GIBBON, WA | M0 | East West | 4.8781 7.1442 | 9.490 9.490 | 58,510 85,691 |
| 33.520 | 40.480 | EAST GIBBON, WA | EAST PROSSER, WA | M0 | East | 4.6486 | 6.960 | 40,893 |
| | | | WA | | West | 6.7620 | 6.960 | 59,484 |
| 40.480 | 41.310 | EAST PROSSER, WA | WEST BYRON, WA | M0 | East | 4.6491 | 0.830 | 4,877 |
| | | ,,,, | | | West | 6.6672 | 0.830 | 6,994 |
| 41.310 | 44.210 | WEST BYRON, WA | EAST BYRON, WA | M0 | East West | 4.6495 6.6667 | 2.900 2.900 | 17,042 24,436 |
| 44.210 | 45.427 | EAST BYRON, WA | YAKIMA County, Washington | M0 | East | 4.3801 | 1.217 | 6,737 |
| | | | w asinington | | West | 6.3921 | 1.217 | 9,832 |

BENTON County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage 7,610,805 108.3

BENTON County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | S* 0 | TOTAL |
|-----------------|---------------------|------------------------|-----------------|-------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | | | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 80.52 | 9.6 | 0.00 | 80.52 |
| Carbon Monoxide | 27.4 | 229.81 | 27.4 | 0.00 | 229.81 |
| Nitrogen Oxides | 172.5 | 1446.78 | 172.5 | 0.00 | 1446.78 |
| Particulates | 6 | 50.32 | 6 | 0.00 | 50.32 |
| Sulfur Dioxide | 16.3 | 136.71 | 16.3 | 0.00 | 136.71 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

CHELAN County, Washington

| | | | Locomotive Fuel Rat | e Per GTM/Gallon: | 79 1 | 1.2 | | | |
|-----------------|---------------------------------------|----------------------|--|----------------------|-------------|--------------|--------------------------|-------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 37 | 1641.091 | 1642.736 | DOUGLAS County, Washington | EAST MALAGA, WA | M0 | East | 14.9416 | 1.645 | 31,071 |
| | | | washington | WA | | West | 12.9168 | 1.645 | 26,860 |
| | 1642.736 | 1644.610 | EAST MALAGA, WA | WEST MALAGA, WA | M0 | East | 14.9443 | 1.874 | 35,396 |
| | | | **** | | | West | 12.9169 | 1.874 | 30,594 |
| | 1644.610 | 1650.199 | WEST MALAGA, WA | END SUB, WA | M0 | East West | 14.9457 12.9170 | 5.589 5.589 | 105,576 91,245 |
| | 1650.199 | 1650.200 | BEGIN SUB, WA | WENATCHEE, WA | M0 | East West | 14.9457 12.9170 | 0.001 0.001 | 19 16 |
| | 1650.200 | 1652.825 | WENATCHEE, WA | OLDS JCT, WA | M1 | East West | 7.5439 6.7498 | 2.625 2.625 | 25,029 22,394 |
| | 1650.200 | 1652.825 | WENATCHEE, WA | OLDS JCT, WA | M2 | East West | 7.5439 6.7498 | 2.625 2.625 | 25,029 22,394 |
| | 1652.825 | 1659.305 | OLDS JCT, WA | EAST CASHMERE, WA | M 0 | East | 15.0878 | 6.480 | 123,570 |
| | | | | WA | | West | 13.4996 | 6.480 | 110,563 |
| | 1659.305 | 1661.179 | the state of the s | WEST CASHMERE, WA | M 0 | East | 15.0878 | 1.874 | 35,736 |
| | | | WA | WA | | West | 13.4996 | 1.874 | 31,975 |
| | · · · · · · · · · · · · · · · · · · · | EAST LEAVENWORTH, | M0 | East | 15.0846 | 10.179 | 194,067 | | |
| | | | **** | WA | | West | 13.5001 | 10.179 | 173,682 |
| | 1671.358 | 1673.002 | EAST LEAVENWORTH, | WEST LEAVENWORTH, | M0 | East | 15.0850 | 1.644 | 31,344 |
| | | | WA | WA | | West | 13.4999 | 1.644 | 28,051 |
| | 1673.002 | 1685.754 | WEST LEAVENWORTH, | EAST WINTON, WA | M0 | East | 15.0857 | 12.752 | 243,141 |
| | | | WA | | | West | 13.4994 | 12.752 | 217,574 |
| | 1685.754 | 1687.976 | EAST WINTON, WA | WEST WINTON, WA | M0 | East | 15.0884 | 2.222 | 42,374 |
| | | | | WA | | West | 13.4998 | 2.222 | 37,913 |
| | 1687.976 | 1691.717 | WEST WINTON, WA | EAST MERRITT, WA | M0 | East | 15.0886 | 3.741 | 71,343 |
| | | | W/1 | W/1 | | West | 13.4999 | 3.741 | 63,831 |
| | 1691.717 | 1693.134 | EAST MERRITT, WA | WEST MERRITT, WA | M0 | East | 14.8595 | 1.417 | 26,613 |
| | | | **** | | | West | 13.2733 | 1.417 | 23,772 |
| | 1693.134 | 1697.308 | WEST MERRITT, WA | EAST BERNE, WA | M0 | East | 14.6340 | 4.174 | 77,202 |
| | 1697.308 | 1600 561 | EACT DEDNIE WA | WEST DEDNE WA | MO | West East | 13.0502 14.6340 | 4.174 2.253 | 68,847 41,671 |
| | 1071.300 | 10//.501 | EAST BERNE, WA | WEST BERNE, WA | M0 | West | 13.0504 | 2.253 | 37,162 |
| | 1699.561 | 1704.631 | WEST BERNE, WA | KING County, | M0 | East | 14.6343 | 5.070 | 93,778 |
| | | | | Washington | | West | 13.0552 | 5.070 | 83,659 |

CHELAN County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | S* 1 | TOTAL |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 24.05 | 9.6 | 0.53 | 24.58 |
| Carbon Monoxide | 27.4 | 68.65 | 27.4 | 1.51 | 70.16 |
| Nitrogen Oxides | 172.5 | 432.18 | 172.5 | 9.50 | 441.68 |
| Particulates | 6 | 15.03 | 6 | 0.33 | 15.36 |
| Sulfur Dioxide | 16.3 | 40.84 | 16.3 | 0.90 | 41.74 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

CLARK County, Washington

| | | | Locomotive Fuel Ra | te Per GTM/Gallon: | 79 | 1.2 | | | |
|-----------------|------------------|----------------|-----------------------------|------------------------------|-------|--------------|--------------------------|-------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 47 | 9.598 | 9.817 | MULTNOMAH County, Oregon | OREGON SLOUGH, OR | M1 | East | 5.2892 | 0.219 | 1,463 |
| | | | | | | West | 8.2399 | 0.219 | 2,279 |
| | 9.598 | 9.817 | MULTNOMAH County, Oregon | OREGON SLOUGH, OR | M2 | East | 5.2892 | 0.219 | 1,463 |
| | | | | | | West | 8.2399 | 0.219 | 2,279 |
| | 9.817 | 10.710 | 8TH STREET, OR | COLUMBIA RIVER BRIDGE, OR | M1 | East | 12.9131 | 0.893 | 14,575 |
| | | | | | | West | 27.6225 | 0.893 | 31,177 |
| | 9.817 | 10.710 | 8TH STREET, OR | COLUMBIA RIVER BRIDGE, OR | M2 | East | 12.9131 | 0.893 | 14,575 |
| | | | | | | West | 27.6225 | 0.893 | 31,177 |
| | 10.710 | 12.660 | EAVAN, OR | 8TH STREET, OR | M1 | East West | 14.0181 30.4297 | 1.950 1.950 | 34,549 74,997 |
| | 10.710 | 12.660 | EAVAN, OR | 8TH STREET, OR | M2 | East West | 14.0181 30.4297 | 1.950 1.950 | 34,549 74,997 |
| | 12.660 | 14.004 | | | | | | | |
| | 12.660 | 14.894 | MCLOUGHLIN, OR | EAVAN, OR | M1 | East West | 14.0325 30.4247 | 2.234 2.234 | 39,622 85,906 |
| | 12.660 | 14.894 | MCLOUGHLIN, OR | EAVAN, OR | M2 | East | 14.0325 | 2.234 | 39,622 |
| | | | | | | West | 30.4247 | 2.234 | 85,906 |
| | 14.894 | 23.000 | MP 23.0, WA | MCLOUGHLIN, WA | M0 | East West | 28.1052 60.8428 | 8.106 8.106 | 287,943 623,346 |
| | 23.000 | 27.738 | WEST WASHOUGAL, WA | MP 23.0, WA | M0 | East | 28.0981 | 4.738 | 168,262 |
| | | | | | | West | 60.8493 | 4.738 | 364,388 |
| | 27.738 | 29.847 | EAST WASHOUGAL, WA | WEST WASHOUGAL, WA | M0 | East | 28.0563 | 2.109 | 74,786 |
| | | | | | | West | 60.8473 | 2.109 | 162,193 |
| | 29.847 | 32.217 | WEST SKAMANIA, WA | SKAMANIA County, | M0 | East | 28.0317 | 2.370 | 83,962 |
| | | | | Washington | | West | 60.8037 | 2.370 | 182,123 |
| 52 | 119.179 | 123.673 | COWLITZ County, | RIDGEFIELD S, WA | M1 | East | 11.7745 | 4.494 | 66,885 |
| | | | Washington | | | West | 22.9506 | 4.494 | 130,371 |
| | 119.179 | 123.673 | COWLITZ County, | RIDGEFIELD S, WA | M2 | East | 11.7745 | 4.494 | 66,885 |
| | | | Washington | | | West | 22.9506 | 4.494 | 130,371 |
| | 123.673 | 130.674 | RIDGEFIELD S, WA | FELIDA, WA | M1 | East West | 11.4713 22.6754 | 7.001 7.001 | 101,505 200,645 |
| | 123.673 | 130.674 | RIDGEFIELD S, WA | FELIDA, WA | M2 | East West | 11.4713 22.6754 | 7.001 7.001 | 101,505 200,645 |

| 130.674 | 132.488 | FELIDA, WA | VANCOUVER JCT NORTH, WA | M1 | East | 11.4713 | 1.814 | 26,300 |
|---------|---------|----------------------------|----------------------------|----|------|---------|-------|---------|
| | | | | | West | 22.6754 | 1.814 | 51,988 |
| 130.674 | 132.488 | FELIDA, WA | VANCOUVER JCT NORTH, WA | M2 | East | 11.4713 | 1.814 | 26,300 |
| | | | | | West | 22.6754 | 1.814 | 51,988 |
| 132.488 | 136.251 | VANCOUVER JCT NORTH, WA | END STATE, WA | M1 | East | 12.2102 | 3.763 | 58,073 |
| | | | | | West | 23.4052 | 3.763 | 111,317 |
| 132.488 | 133.631 | VANCOUVER JCT NORTH, WA | B YARD VANJCT, WA | M2 | East | 11.7958 | 1.143 | 17,041 |
| | | | | | West | 22.9905 | 1.143 | 33,213 |
| 133.631 | 136.251 | B YARD VANJCT, WA | END STATE, WA | M2 | East | 12.3815 | 2.620 | 41,000 |
| | | | | | West | 23.5766 | 2.620 | 78,072 |

CLARK County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage 4,010,242 43.5

CLARK County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | S* 8 | TOTAL |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 42.43 | 9.6 | 4.23 | 46.66 |
| Carbon Monoxide | 27.4 | 121.09 | 27.4 | 12.08 | 133.17 |
| Nitrogen Oxides | 172.5 | 762.33 | 172.5 | 76.04 | 838.36 |
| Particulates | 6 | 26.52 | 6 | 2.64 | 29.16 |
| Sulfur Dioxide | 16.3 | 72.03 | 16.3 | 7.19 | 79.22 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

COWLITZ County, Washington

| | Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | | |
|-----------------|--|----------------|-----------------------------|-----------------------------|-------|-----------|--------------------------|----------------------|---------------------|--|--|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | | | |
| 52 | 79.006 | 85.004 | LEWIS County, Washington | MP 85, WA | M1 | East | 10.3190 | 5.998 | 78,224 | | | |
| | | | | | | West | 17.3967 | 5.998 | 131,877 | | | |
| | 79.006 | 85.004 | LEWIS County, Washington | MP 85, WA | M2 | East | 10.3190 | 5.998 | 78,224 | | | |
| | | | | | | West | 17.3967 | 5.998 | 131,877 | | | |
| | 85.004 | 93.398 | MP 85, WA | OSTRANDER, WA | M1 | East | 10.3163 | 8.394 | 109,448 | | | |
| | | | | | | West | 17.3958 | 8.394 | 184,556 | | | |
| | 85.004 | 93.398 | MP 85, WA | OSTRANDER, WA | M2 | East | 10.3163 | 8.394 | 109,448 | | | |
| | | | | | | West | 17.3958 | 8.394 | 184,556 | | | |
| | 93.398 | 98.930 | OSTRANDER, WA | KELSO SOUTH, WA | M1 | East | 10.4782 | 5.532 | 73,263 | | | |
| | | | | | | West | 17.5545 | 5.532 | 122,740 | | | |
| | 93.398 | 98.930 | OSTRANDER, WA | KELSO SOUTH, WA | M2 | East | 10.4782 | 5.532 | 73,263 | | | |
| | | | | | | West | 17.5545 | 5.532 | 122,740 | | | |
| | 98.930 | 102.535 | KELSO SOUTH, WA | LONGVIEW JCT S, WA | M1 | East | 10.9759 | 3.605 | 50,010 | | | |
| | | | | | | West | 18.2878 | 3.605 | 83,326 | | | |
| | 98.930 | 102.535 | KELSO SOUTH, WA | LONGVIEW JCT S, WA | M2 | East | 10.9759 | 3.605 | 50,010 | | | |
| | | | | | | West | 18.2878 | 3.605 | 83,326 | | | |
| | 102.535 | 110.788 | LONGVIEW JCT S, WA | MP 111, WA | M1 | East | 11.4919 | 8.253 | 119,872 | | | |
| | | | | | | West | 20.4034 | 8.253 | 212,828 | | | |
| | 102.535 | 110.788 | LONGVIEW JCT S, WA | MP 111, WA | M2 | East | 11.4919 | 8.253 | 119,872 | | | |
| | | | | | | West | 20.4034 | 8.253 | 212,828 | | | |
| | 110.788 | 116.578 | MP 111, WA | WOODLAND, WA | M1 | East | 11.9283 | 5.790 | 87,291 | | | |
| | | | | | | West | 23.0417 | 5.790 | 168,619 | | | |
| | 110.788 | 116.578 | MP 111, WA | WOODLAND, WA | M2 | East | 11.9283 | 5.790 | 87,291 | | | |
| | | | | | | West | 23.0417 | 5.790 | 168,619 | | | |
| | 116.578 | 119.179 | WOODLAND, WA | CLARK County, Washington | M1 | East | 11.7745 | 2.601 | 38,702 | | | |
| | | | | | | West | 22.9506 | 2.601 | 75,436 | | | |
| | 116.578 | 119.179 | WOODLAND, WA | CLARK County, Washington | M2 | East | 11.7745 | 2.601 | 38,702 | | | |
| | | | | 8 · | | West | 22.9506 | 2.601 | 75,436 | | | |

COWLITZ County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | S* 3 | TOTAL | |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|--|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year | |
| Hydrocarbon | g/gal 9.6 | 32.50 | g/gal 9.6 | 1.59 | 34.09 | |
| Carbon Monoxide | 27.4 | 92.77 | 27.4 | 4.53 | 97.30 | |
| Nitrogen Oxides | 172.5 | 584.04 | 172.5 | 28.51 | 612.56 | |
| Particulates | 6 | 20.31 | 6 | 0.99 | 21.31 | |
| Sulfur Dioxide | 16.3 | 55.19 | 16.3 | 2.69 | 57.88 | |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

DOUGLAS County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

| | Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | | | |
|-----------------|--|----------------|-----------------------------|------------------------------|-----------|---------------|--------------------------|----------------------|---------------------|--|--|--|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | | | | |
| 37 | 1626.836 | 1627.046 | GRANT County, Washington | WEST TRINIDAD, WA | M0 | East | 14.9396 | 0.210 | 3,961 | | | | |
| | | | | | | West | 12.9216 | 0.210 | 3,426 | | | | |
| | 1627.046 | 1634.140 | WEST TRINIDAD, WA | EAST ALBUS, WA | M0 | East | 14.9393 | 7.094 | 133,948 | | | | |
| | | | | | | West | 12.9218 | 7.094 | 115,859 | | | | |
| | 1634.140 | 1635.874 | EAST ALBUS, WA | WEST ALBUS, WA | M0 | East | 14.9414 | 1.734 | 32,746 | | | | |
| | | | | | | West | 12.9173 | 1.734 | 28,310 | | | | |
| | 1635.874 | 1641.091 | WEST ALBUS, WA | CHELAN County, Washington | M0 | East | 14.9416 | 5.217 | 98,516 | | | | |
| | | | | | | West | 12.9168 | 5.217 | 85,166 | | | | |
| I | OOUGLAS | County, W | ashington | Estimated 2008 | B Line Ha | aul Locomotiv | e Fuel Consump | otion in Gallons | 501,930 | | | | |

Estimated 2008 Main Line Mileage

14.3

DOUGLAS County

| | LINE HAUL LOCO | MOTIVES | YARD LOCOMOTIVE | CS* 6 | TOTAL |
|-----------------|---------------------|------------------------|---------------------|------------------------|---------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| Hydrocarbon | g/gal 9.6 | 5.31 | g/gal 9.6 | 3.17 | 8.48 |
| Carbon Monoxide | 27.4 | 15.16 | 27.4 | 9.06 | 24.21 |
| Nitrogen Oxides | 172.5 | 95.41 | 172.5 | 57.03 | 152.44 |
| Particulates | 6 | 3.32 | 6 | 1.98 | 5.30 |
| Sulfur Dioxide | 16.3 | 9.02 | 16.3 | 5.39 | 14.40 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9. The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

FERRY County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

| Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | | | |
|---|------------------|----------------|-------------------------------|-------------------------------|-------|-----------|--------------------------|----------------------|---------------------|--|--|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | | | |
| 377 | 4.759 | 8.442 | STEVENS County, Washington | STEVENS County, Washington | M1 | East | 0.0000 | 3.684 | 0 | | | |
| | | | | | | West | 0.0000 | 3.684 | 0 | | | |
| FERRY County, Washington Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage | | | | | | | | | | | | |

FERRY County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|--|---------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor Emissions in Tons/Year | | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 0.00 | 9.6 | 0.00 | 0.00 |
| Carbon Monoxide | 27.4 | 0.00 | 27.4 | 0.00 | 0.00 |
| Nitrogen Oxides | 172.5 | 0.00 | 172.5 | 0.00 | 0.00 |
| Particulates | 6 | 0.00 | 6 | 0.00 | 0.00 |
| Sulfur Dioxide | 16.3 | 0.00 | 16.3 | 0.00 | 0.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9. The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

FRANKLIN County, Washington

| Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | | |
|--|------------------|----------------|---------------------|---------------------|-------|--------------|--------------------------|----------------------|---------------------|--|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | | Density Million GT | Distance in Miles | Fuel Use in Gallons | | |
| 46 | 104.367 | 108.251 | ADAMS County, | EAST CONNELL, WA | M0 | East | 27.1986 | 3.884 | 133,516 | | |
| | | | Washington | | | West | 67.3364 | 3.884 | 330,550 | | |
| | 108.251 | 109.937 | EAST CONNELL, WA | WEST CONNELL, WA | M0 | East | 27.1986 | 1.686 | 57,959 | | |
| | | | | WA | | West | 67.3364 | 1.686 | 143,490 | | |
| | 109.937 | 114.948 | WEST CONNELL, WA | EAST CACTUS, WA | M0 | East | 28.1323 | 5.011 | 178,174 | | |
| | | | WA | | | West | 68.2115 | 5.011 | 432,012 | | |
| | 114.948 | 116.633 | EAST CACTUS, WA | WEST CACTUS, WA | M0 | East | 28.1552 | 1.685 | 59,961 | | |
| | | | | WIL | | West | 68.2232 | 1.685 | 145,293 | | |
| | 116.633 | 126.391 | WEST CACTUS, WA | EAST ELTOPIA, WA | M0 | East | 28.1607 | 9.758 | 347,311 | | |
| | | | W/1 | | | West | 68.2216 | 9.758 | 841,388 | | |
| | 126.391 | 128.076 | EAST ELTOPIA, WA | WEST ELTOPIA, WA | M0 | East | 28.1632 | 1.685 | 59,979 | | |
| | | | | **** | | West | 68.2225 | 1.685 | 145,292 | | |
| | 128.076 | 137.015 | WEST ELTOPIA, WA | GLADE, WA | M0 | East | 28.1512 | 8.939 | 318,053 | | |
| | | | ,,,, | | | West | 68.2198 | 8.939 | 770,749 | | |
| | 137.020 | 140.300 | GLADE, WA | PASCO EAST, WA | M1 | East | 14.1124 | 3.280 | 58,504 | | |
| | 137.020 | 140.300 | GLADE, WA | PASCO EAST, WA | M2 | West East | 34.0985 14.1124 | 3.280 3.280 | 141,359 58,504 | | |
| | 137.020 | 140.300 | GLADE, WA | TASCO EAST, WA | IVIZ | West | 34.0985 | 3.280 | 141,359 | | |
| | 140.300 | 142.100 | PASCO EAST, WA | COUGAR, WA | M1 | East | 14.1124 | 1.800 | 32,106 | | |
| | 1.40.200 | 1.42.100 | | | | West | 34.0985 | 1.800 | 77,575 | | |
| | 140.300 | 142.100 | PASCO EAST, WA | COUGAR, WA | M2 | East West | 14.1124 34.0985 | 1.800 1.800 | 32,106 77,575 | | |
| | 142.100 | 142.700 | COUGAR, WA | HUSKY, WA | M1 | East | 14.1124 | 0.600 | 10,702 | | |
| | | | | | | West | 34.0985 | 0.600 | 25,858 | | |
| | 142.100 | 142.700 | COUGAR, WA | HUSKY, WA | M2 | East West | 14.1124 34.0985 | 0.600 0.600 | 10,702 25,858 | | |
| | 142.700 | 145.302 | HUSKY, WA | GRAPEVINE, WA | M1 | East | 14.1124 | 2.602 | 46,411 | | |
| | | | | | | West | 34.0985 | 2.602 | 112,139 | | |
| | 142.700 | 145.302 | HUSKY, WA | GRAPEVINE, WA | M2 | East | 14.1124 | 2.602 | 46,411 | | |
| | 145.302 | 146.597 | CD A DEVINE WA | CD 146 50 WA | M1 | West East | 34.0985 14.1124 | 2.602 1.295 | 112,139 23,099 | | |
| | 143.302 | 170.371 | GRAPEVINE, WA | CP 146.59, WA | 1411 | West | 34.0985 | 1.295 | 55,811 | | |
| | 145.302 | 146.597 | GRAPEVINE, WA | CP 146.59, WA | M2 | East West | 14.1124 34.0985 | 1.295 1.295 | 23,099 55,811 | | |

FRANKLIN County

| | LINE HAUL LOCO | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 54.28 | 9.6 | 9.52 | 63.80 |
| Carbon Monoxide | 27.4 | 154.93 | 27.4 | 27.18 | 182.10 |
| Nitrogen Oxides | 172.5 | 975.35 | 172.5 | 171.09 | 1146.44 |
| Particulates | 6 | 33.93 | 6 | 5.95 | 39.88 |
| Sulfur Dioxide | 16.3 | 92.16 | 16.3 | 16.17 | 108.33 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

GRANT County, Washington

| Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | | | |
|--|------------------|--|--------------------------|-------------------------------|---------|-----------|--------------------------|----------------------|---------------------|--|--|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | | | |
| 37 | 1568.952 | 58.952 1576.070 LINCOLN County, EAST WILSON Washington CREEK, WA | | M0 | East | 14.3047 | 7.118 | 128,687 | | | | |
| | | | | | | West | 12.3869 | 7.118 | 111,434 | | | |
| | 1576.070 | 1577.890 | EAST WILSON CREEK, WA | WEST WILSON CREEK, WA | M0 | East | 14.3957 | 1.820 | 33,114 | | | |
| | | | | | | West | 12.4802 | 1.820 | 28,708 | | | |
| | 1577.890 | 1587.732 | WEST WILSON CREEK, WA | EAST ADRIAN, WA | M0 | East | 14.3972 | 9.842 | 179,092 | | | |
| | | | | | | West | 12.4818 | 9.842 | 155,265 | | | |
| | 1587.732 | 1589.900 | EAST ADRIAN, WA | WEST ADRIAN, WA | M0 | East | 14.3983 | 2.168 | 39,453 | | | |
| | | | | | | West | 12.4833 | 2.168 | 34,206 | | | |
| | 1589.900 | 1602.785 | WEST ADRIAN, WA | EAST NAYLOR, WA | M0 | East | 14.8171 | 12.885 | 241,302 | | | |
| | | | | | | West | 12.7694 | 12.885 | 207,955 | | | |
| | 1602.785 | 1604.854 | EAST NAYLOR, WA | WEST NAYLOR, WA | M0 | East | 14.8952 | 2.069 | 38,951 | | | |
| | | | | | | West | 12.8280 | 2.069 | 33,545 | | | |
| | 1604.854 | 1614.350 | WEST NAYLOR, WA | MP 1614.1, WA | M0 | East | 14.8952 | 9.496 | 178,773 | | | |
| | | | | | | West | 12.8258 | 9.496 | 153,936 | | | |
| | 1614.350 | 1614.562 | MP 1614.1, WA | EAST QUINCY, WA | M0 | East | 14.8953 | 0.212 | 3,991 | | | |
| | | | | | | West | 12.8259 | 0.212 | 3,437 | | | |
| | 1614.562 | 1618.894 | EAST QUINCY, WA | WEST QUINCY, WA | M0 | East | 14.9306 | 4.332 | 81,748 | | | |
| | | | | | | West | 12.9015 | 4.332 | 70,639 | | | |
| | 1618.894 | 618.894 1625.507 WEST QUINCY, EAST TRINIDAD, WA | | EAST TRINIDAD, WA | A M0 | East | 14.9400 | 6.613 | 124,871 | | | |
| | | | | | | West | 12.9216 | 6.613 | 108,001 | | | |
| 1 | 1625.507 | 1626.836 | EAST TRINIDAD, WA | DOUGLAS County, Washington | M0 | East | 14.9396 | 1.329 | 25,099 | | | |
| | w asiinigtoii | | | West | 12.9216 | 1.329 | 21,709 | | | | | |

GRANT County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 21.20 | 9.6 | 0.00 | 21.20 |
| Carbon Monoxide | 27.4 | 60.51 | 27.4 | 0.00 | 60.51 |
| Nitrogen Oxides | 172.5 | 380.93 | 172.5 | 0.00 | 380.93 |
| Particulates | 6 | 13.25 | 6 | 0.00 | 13.25 |
| Sulfur Dioxide | 16.3 | 36.00 | 16.3 | 0.00 | 36.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

GRAYS County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

Locomotive Fuel Rate Per GTM/Gallon: 791.2

Fuel Use Line From То From To Track Direction Distance Density Segment Milepost Milepost Station Station Million in Miles in Gallons GT

GRAYS County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage

0 0.0

GRAYS HARBOR County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|--|---------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor Emissi in Tons/ | | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 0.00 | 9.6 | 0.00 | 0.00 |
| Carbon Monoxide | 27.4 | 0.00 | 27.4 | 0.00 | 0.00 |
| Nitrogen Oxides | 172.5 | 0.00 | 172.5 | 0.00 | 0.00 |
| Particulates | 6 | 0.00 | 6 | 0.00 | 0.00 |
| Sulfur Dioxide | 16.3 | 0.00 | 16.3 | 0.00 | 0.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year.

The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

KING County, Washington

| | | | Locomotive Fuel Ra | 1.2 | | | | | |
|-----------------|------------------|----------------|---|------------------------|--------|-----------|--------------------------|-------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 37 | 1704.631 | 1708.323 | CHELAN County, Washington | EAST SCENIC, WA | M0 | East | 14.6343 | 3.692 | 68,287 |
| | | | | | | West | 13.0552 | 3.692 | 60,919 |
| | 1708.323 | 1721.184 | EAST SCENIC, WA | WEST SCENIC, WA | M0 | East | 14.6312 | 12.861 | 237,831 |
| | | | | | | West | 13.0534 | 12.861 | 212,184 |
| | 1721.184 | 1730.709 | WEST SCENIC, WA | EAST SKYKOMISH, WA | M0 | East | 14.6309 | 9.525 | 176,137 |
| | | | | | | West | 13.0532 | 9.525 | 157,143 |
| | 1730.709 | 1732.529 | EAST SKYKOMISH, WA | WEST SKYKOMISH, WA | M0 | East | 14.6481 | 1.820 | 33,695 |
| | | | | | | West | 13.0776 | 1.820 | 30,082 |
| | 1732.529 | 1738.511 | WEST SKYKOMISH, WA | EAST BARING, WA | M0 | East | 14.7398 | 5.982 | 111,443 |
| | | | | | | West | 13.2072 | 5.982 | 99,855 |
| | 1738.511 | 1740.317 | EAST BARING, WA | SNOHOMISH County, | M0 | East | 14.7398 | 1.806 | 33,639 |
| | | | | Washington | | West | 13.2073 | 1.806 | 30,142 |
| | | | | | | | | | |
| 49 | 47.529 | 48.840 | KITTITAS County, Washington | EAST STAMPEDE, WA | M0 | East | 3.7837 | 1.311 | 6,268 |
| | | | | West | 5.6455 | 1.311 | 9,352 | | |
| | 48.840 | 49.160 | EAST STAMPEDE, WA | WEST STAMPEDE, WA | M0 | East | 3.7837 | 0.320 | 1,530 |
| | | | | | | West | 5.6455 | 0.320 | 2,283 |
| | 49.160 | 59.040 | WEST STAMPEDE, WA | EAST LESTER, WA | M0 | East | 3.7825 | 9.880 | 47,233 |
| | | | | | | West | 5.6455 | 9.880 | 70,497 |
| | 59.040 | 60.510 | EAST LESTER, WA | WEST LESTER, WA | M0 | East | 3.7794 | 1.470 | 7,022 |
| | | | | | | West | 5.6388 | 1.470 | 10,477 |
| | 60.510 | 81.060 | WEST LESTER, WA | PALMER JCT, WA | M0 | East | 3.7771 | 20.550 | 98,103 |
| | | | | | | West | 5.6339 | 20.550 | 146,330 |
| | 81.060 | 81.940 | PALMER JCT, WA | EAST KANASKAT, WA | M0 | East | 3.7788 | 0.880 | 4,203 |
| | | | | | | West | 5.6339 | 0.880 | 6,266 |
| | 81.940 | 83.860 | EAST KANASKAT, WA | WEST KANASKAT, WA | M0 | East | 3.7726 | 1.920 | 9,155 |
| | | | | | | West | 5.6335 | 1.920 | 13,671 |
| | 83.860 | 87.530 | WEST KANASKAT, WA | EAST RAVENSDALE, WA | M0 | East | 3.7711 | 3.670 | 17,492 |
| | | | | | | West | 5.6335 | 3.670 | 26,131 |
| | 87.530 | 88.820 | EAST WEST RAVENSDALE, WA RAVENSDALE, WA | | M0 | East | 3.7656 | 1.290 | 6,140 |
| | | | | | | West | 5.6262 | 1.290 | 9,173 |
| | 88.820 | 93.790 | WEST RAVENSDALE, WA | EAST COVINGTON, WA | M0 | East | 3.7630 | 4.970 | 23,638 |
| | | | | | | West | 5.6228 | 4.970 | 35,320 |

| | 93.790 | 95.060 | EAST COVINGTON, WA | WEST COVINGTON, WA | M0 | East | 3.7630 | 1.270 | 6,040 |
|----|----------------|---------|--|-------------------------|------|--------------|--------------------|----------------|------------------|
| | 0.7.0.40 | 400 400 | | | | West | 5.6228 | 1.270 | 9,025 |
| | 95.060 | 100.600 | WEST COVINGTON, WA | MP 100.6, WA | M0 | East | 3.7630 | 5.540 | 26,349 |
| | | | | | | West | 5.6230 | 5.540 | 39,372 |
| | 100.600 | 101.290 | MP 100.6, WA | EAST EAST AUBURN, WA | M0 | East | 3.7630 | 0.690 | 3,282 |
| | | | | noboliti, wii | | West | 5.6230 | 0.690 | 4,904 |
| | 101.290 | 102.290 | EAST EAST AUBURN, WA | WEST EAST AUBURN, WA | M0 | East | 3.7630 | 1.000 | 4,756 |
| | | | Aobeki, wa | AODORIV, WA | | West | 5.6230 | 1.000 | 7,107 |
| | 102.290 | 102.855 | WEST EAST | END STATE, WA | M0 | East | 3.7630 | 0.565 | 2,687 |
| | | | AUBURN, WA | | | West | 5.6230 | 0.565 | 4,015 |
| 50 | 0.145 | 1.665 | NORTH PORTAL, WA | SOUTH PORTAL, WA | A M1 | East | 15.4543 | 1.520 | 29,690 |
| | | | WA | | | West | 13.9793 | 1.520 | 26,856 |
| | 0.145 | 1.665 | NORTH PORTAL, | SOUTH PORTAL, WA | A M2 | East | 15.4543 | 1.520 | 29,690 |
| | | | WA | | | West | 13.9793 | 1.520 | 26,856 |
| | 1.665 | 3.420 | GALER STREET, | NORTH PORTAL, | M1 | East | 15.4543 | 1.755 | 34,280 |
| | | | WA | WA | | West | 13.9793 | 1.755 | 31,008 |
| | 1.665 | 3.420 | GALER STREET, | NORTH PORTAL, | M2 | East | 15.4543 | 1.755 | 34,280 |
| | | | WA | WA | | West | 13.9793 | 1.755 | 31,008 |
| | 3.420 | 4.341 | MP 4, WA | GALER STREET, | M0 | East | 30.9086 | 0.921 | 35,979 |
| | | | | WA | | West | 27.9586 | 0.921 | 32,545 |
| | 4.341 | 5.000 | 23RD ST, WA | MP 4, WA | M0 | East | 30.1053 | 0.659 | 25,075 |
| | | | | | | West | 27.6554 | 0.659 | 23,035 |
| | 5.000 | 5.415 | MP 5.4, WA | 23RD ST, WA | M0 | East West | 22.0864 24.6290 | 0.415 0.415 | 11,585 12,918 |
| | 5.415 | 7.389 | MP 7, WA | MP 5.4, WA | M1 | East | 11.0424 | 1.974 | 27,550 |
| | 01.10 | 7.005 | 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7 | , | | West | 12.3143 | 1.974 | 30,723 |
| | 5.415 | 7.389 | MP 7, WA | MP 5.4, WA | M2 | East | 11.0424 | 1.974 | 27,550 |
| | | | | | | West | 12.3143 | 1.974 | 30,723 |
| | 7.389 | 7.727 | MP 8, WA | MP 7, WA | M0 | East | 22.0541 | 0.338 | 9,421 |
| | 5 5 5 7 | 0.100 | | | | West | 24.6215 | 0.338 | 10,518 |
| | 7.727 | 9.100 | BLUE RIDGE, WA | MP 8, WA | M1 | East West | 11.0270 12.3107 | 1.373 1.373 | 19,136 21,363 |
| | 7.727 | 9.100 | BLUE RIDGE, WA | MP 8, WA | M2 | East | 11.0270 | 1.373 | 19,136 |
| | 7.727 | 7.100 | BECE RIDGE, WIT | WI 6, W/I | 1112 | West | 12.3107 | 1.373 | 21,363 |
| | 9.100 | 15.007 | MP 16, WA | SNOHOMISH | M1 | East | 11.0337 | 5.907 | 82,382 |
| | | | | County, Washington | | West | 12.3223 | 5.907 | 92,003 |
| | 9.100 | 15.007 | MP 16, WA | SNOHOMISH | M2 | East | 11.0337 | 5.907 | 82,382 |
| | | | | County, Washington | | West | 12.3223 | 5.907 | 92,003 |
| 51 | 0.000 | 2.070 | SEATTLE, WA | SPOKANE STREET, | M1 | East | 14.0496 | 2.070 | 36,758 |
| | | | | WA | | West | 15.6127 | 2.070 | 40,847 |
| | | | | | | | | | 7 |

| 0.000 | 2.070 | SEATTLE, WA | SPOKANE STREET, WA | M2 | East | 14.0496 | 2.070 | 36,758 |
|-------|--------|-----------------------|---|------|--------------|------------------|----------------|----------------|
| | | | | | West | 15.6127 | 2.070 | 40,847 |
| 2.070 | 3.200 | SPOKANE STREET, WA | LUCILE, WA | M1 | East | 14.0385 | 1.130 | 20,050 |
| | | W/1 | | | West | 15.5989 | 1.130 | 22,279 |
| 2.070 | 3.430 | SPOKANE STREET, WA | ARGO, WA | M2 | East | 13.7032 | 1.360 | 23,555 |
| | | **** | | | West | 15.2008 | 1.360 | 26,129 |
| 3.200 | 3.390 | LUCILE, WA | ARGO, WA | M1 | East | 12.7977 | 0.190 | 3,073 |
| | | | | | West | 14.0602 | 0.190 | 3,376 |
| 3.390 | 3.630 | ARGO, WA | BAILEY, WA | M1 | East | 8.5318 | 0.240 | 2,588 |
| | | | | | West | 9.3735 | 0.240 | 2,843 |
| 3.430 | 3.630 | ARGO, WA | BAILEY, WA | M2 | East | 8.5318 | 0.200 | 2,157 |
| | | | | | West | 9.3735 | 0.200 | 2,369 |
| 3.630 | 4.200 | BAILEY, WA | GEORGETOWN, WA | M1 | East | 8.5318 | 0.570 | 6,147 |
| | | | | | West | 9.3735 | 0.570 | 6,753 |
| 3.630 | 6.310 | BAILEY, WA | RHODES, WA | M2 | East | 8.5318 | 2.680 | 28,899 |
| | | | | | West | 9.3735 | 2.680 | 31,750 |
| 3.630 | 5.400 | BAILEY, WA | VAN ASSELT, WA | M3 | East | 8.5318 | 1.770 | 19,087 |
| | | | | | West | 9.3735 | 1.770 | 20,970 |
| 4.200 | 6.310 | GEORGETOWN, WA | RHODES, WA | M1 | East | 8.5318 | 2.110 | 22,753 |
| | | | | | West | 9.3735 | 2.110 | 24,998 |
| 5.400 | 6.310 | VAN ASSELT, WA | RHODES, WA | M3 | East | 8.5318 | 0.910 | 9,813 |
| | | | | | West | 9.3735 | 0.910 | 10,781 |
| 6.310 | 6.580 | RHODES, WA | BOEING, WA | M1 | East | 8.5318 | 0.270 | 2,912 |
| | | | | | West | 9.3735 | 0.270 | 3,199 |
| 6.310 | 6.580 | RHODES, WA | BOEING, WA | M2 | East | 8.5318 | 0.270 | 2,912 |
| | | | | | West | 9.3735 | 0.270 | 3,199 |
| 6.310 | 6.580 | RHODES, WA | BOEING, WA | M3 | East | 8.5318 | 0.270 | 2,912 |
| | | | | | West | 9.3735 | 0.270 | 3,199 |
| 6.580 | 7.900 | BOEING, WA | SOUTH SEATTLE, | M1 | East | 8.5318 | 1.320 | 14,234 |
| | | | WA | | West | 9.3735 | 1.320 | 15,638 |
| 6.580 | 9.970 | BOEING, WA | BLACK RIVER, WA | M2 | East | 7.8523 | 3.390 | 33,644 |
| | | | | | West | 8.7742 | 3.390 | 37,594 |
| 6.580 | 9.530 | BOEING, WA | RENTON JCT, WA | M3 | East | 7.9203 | 2.950 | 29,531 |
| | | , | , | | West | 8.8331 | 2.950 | 32,934 |
| 7.900 | 9.970 | SOUTH SEATTLE, | BLACK RIVER, WA | M1 | East | 7.4190 | 2.070 | 19,410 |
| | | WA | | | West | 8.3921 | 2.070 | 21,956 |
| 0.520 | 0.067 | | | | | | | |
| 9.530 | 9.967 | RENTON JCT, WA | BLACK RIVER, WA | М3 | East West | 7.3716 8.3511 | 0.437 0.437 | 4,072 4,613 |
| 9.970 | 10.260 | DI ACIV DIVIED WA | CD THE WHILL A MA | M¹ | East | 11.0574 | 0.290 | 4,053 |
| 7.7/0 | 10.200 | BLACK RIVER, WA | CP TUKWILA, WA | M1 | West | 12.5267 | 0.290 | 4,033 4,591 |
| 9.970 | 10.260 | DI ACK DIMED WA | CD THE WILL A MARK | M2 | East | 11.0574 | 0.290 | 4,053 |
| 7.710 | 10.200 | BLACK RIVER, WA | CP TUKWILA, WA | ıvı∠ | West | 12.5267 | 0.290 | 4,033 4,591 |
| | | | | | | | | |

| | 10.260 | 11.000 | | | | Б | 11.0554 | 1.050 | 14014 |
|-----|--------|--------|---------------------|----------------------|------|--------------|--------------------|----------------|------------------|
| | 10.260 | 11.320 | CP TUKWILA, WA | GLACIER PARK, WA | M1 | East West | 11.0574 12.5267 | 1.060 1.060 | 14,814 16,782 |
| | 10.260 | 11.320 | CP TUKWILA, WA | GLACIER PARK, WA | M2 | East West | 11.0574 12.5267 | 1.060 1.060 | 14,814 16,782 |
| | 11.320 | 16.900 | GLACIER PARK, WA | WILLIS, WA | M1 | East West | 11.0344 12.5301 | 5.580 5.580 | 77,821 88,370 |
| | 11.320 | 13.300 | GLACIER PARK, WA | ORILLIA, WA | M2 | East West | 11.0579 12.5287 | 1.980 1.980 | 27,673 31,353 |
| | 13.300 | 15.700 | ORILLIA, WA | JAMES STREET, WA | M2 | East | 11.0583 | 2.400 | 33,544 |
| | | | | | | West | 12.5302 | 2.400 | 38,009 |
| | 15.700 | 16.900 | JAMES STREET, WA | WILLIS, WA | M2 | East | 10.9479 | 1.200 | 16,604 |
| | | | | | | West | 12.5323 | 1.200 | 19,008 |
| | 16.900 | 20.970 | WILLIS, WA | AUBURN NORTH, WA | M1 | East West | 10.8927 | 4.070 | 56,033 |
| | 16 000 | 20.070 | WHI LIC WA | A LIDLIDAY NODEW | 1.60 | | 12.5334 | 4.070 | 64,473 |
| | 16.900 | 20.970 | WILLIS, WA | AUBURN NORTH, WA | M2 | East | 10.8927 | 4.070 | 56,033 |
| | | | | | | West | 12.5334 | 4.070 | 64,473 |
| | 20.970 | 24.070 | AUBURN NORTH, WA | PACIFIC, WA | M1 | East | 12.0053 | 3.100 | 47,038 |
| | | | | | | West | 13.0056 | 3.100 | 50,957 |
| | 20.970 | 21.600 | AUBURN NORTH, WA | RAINIER, WA | M2 | East | 11.1057 | 0.630 | 8,843 |
| | | | WZ | | | West | 12.6238 | 0.630 | 10,052 |
| | 21.600 | 21.993 | RAINIER, WA | AUBURN YARD, WA | M2 | East West | 12.2348 13.1030 | 0.393 0.393 | 6,077 6,508 |
| | 21.993 | 23.840 | AUBURN YARD, WA | ELLINGSON, WA | M2 | East | 12.2348 | 1.847 | 28,561 |
| | | | | | | West | 13.1030 | 1.847 | 30,588 |
| | 23.840 | 24.070 | ELLINGSON, WA | PACIFIC, WA | M2 | East West | 12.2348 13.1030 | 0.230 0.230 | 3,557 3,809 |
| | 24.070 | 24.865 | PACIFIC, WA | PIERCE County, | M1 | East | 12.2348 | 0.795 | 12,296 |
| | | | | Washington | | West | 13.1032 | 0.795 | 13,169 |
| | 24.070 | 24.865 | PACIFIC, WA | PIERCE County, | M2 | East | 12.2348 | 0.795 | 12,296 |
| | | | | Washington | | West | 13.1032 | 0.795 | 13,169 |
| 403 | 24.000 | 26.377 | WOODINVILLE, WA | SNOHOMISH County, | M0 | East | 0.1041 | 2.377 | 313 |
| | | | WA | Washington | | West | 0.0877 | 2.377 | 264 |
| | | | | | | | | | |
| 405 | 2.240 | 4.300 | EAST RENTON, WA | SCOPA, WA | M0 | East West | 0.0163 0.0177 | 2.060 2.060 | 42 46 |
| | 4.300 | 4.400 | SCOPA, WA | MP 4.4, WA | M0 | East West | 0.0163 0.0177 | 0.100 0.100 | 2 2 |
| | 4.400 | 12.000 | MP 4.4, WA | WILBURTON, WA | M0 | East West | 0.0163 0.0177 | 7.600 7.600 | 157 170 |
| | | | | | | | | | |

| | 12.000 | 12.840 | WILBURTON, WA | WEST BELLEVUE, WA | M0 | East | 0.0225 | 0.840 | 24 |
|-----|--------|--------|----------------------|----------------------|----|--------------|------------------|----------------|------------|
| | | | | WA | | West | 0.0229 | 0.840 | 24 |
| | 12.840 | 13.570 | WEST BELLEVUE, WA | EAST BELLEVUE, WA | M0 | East | 0.0814 | 0.730 | 75 |
| | | | W/1 | **** | | West | 0.0733 | 0.730 | 68 |
| | 13.570 | 17.000 | EAST BELLEVUE, WA | KIRKLAND, WA | M0 | East | 0.0814 | 3.430 | 353 |
| | | | | | | West | 0.0733 | 3.430 | 318 |
| | 17.000 | 23.100 | KIRKLAND, WA | MP 23.1, WA | M0 | East West | 0.0814 0.0733 | 6.100 6.100 | 628 565 |
| | 23.100 | 24.067 | MP 23.1, WA | WOODINVILLE, | M0 | East | 0.0814 | 0.967 | 99 |
| | | | | WA | | West | 0.0733 | 0.967 | 90 |
| 410 | 9.500 | 12.080 | BLACK RIVER, WA | EAST RENTON, WA | M0 | East | 0.2755 | 2.580 | 898 |
| | | | | | | West | 0.1619 | 2.580 | 528 |

KING County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage 4,443,237 179.9

KING County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|--|---------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor Emissions in Tons/Year | | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 47.01 | 9.6 | 5.29 | 52.30 |
| Carbon Monoxide | 27.4 | 134.16 | 27.4 | 15.10 | 149.26 |
| Nitrogen Oxides | 172.5 | 844.64 | 172.5 | 95.05 | 939.68 |
| Particulates | 6 | 29.38 | 6 | 3.31 | 32.68 |
| Sulfur Dioxide | 16.3 | 79.81 | 16.3 | 8.98 | 88.79 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9. The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

KITSAP County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

Locomotive Fuel Rate Per GTM/Gallon: 791.2

Fuel Use То From To Line From Track Direction Distance Density Segment Milepost Milepost Station Station Million in Miles in Gallons GT

KITSAP County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage

0

0.0

KITSAP County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|---|---------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor Emission in Tons/Ye | | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 0.00 | 9.6 | 0.00 | 0.00 |
| Carbon Monoxide | 27.4 | 0.00 | 27.4 | 0.00 | 0.00 |
| Nitrogen Oxides | 172.5 | 0.00 | 172.5 | 0.00 | 0.00 |
| Particulates | 6 | 0.00 | 6 | 0.00 | 0.00 |
| Sulfur Dioxide | 16.3 | 0.00 | 16.3 | 0.00 | 0.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year.

The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

KITTITAS County, Washington

| Locomotive Fuel Rate Per GTM/Gallor | | | | | | 1.2 | | | |
|-------------------------------------|------------------|----------------|------------------------------|----------------------------|-------|-----------|--------------------------|----------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 48 | 101.310 | 109.540 | YAKIMA County, Washington | EAST WYMER, WA | M0 | East | 3.7929 | 8.230 | 39,454 |
| | | | washington | | | West | 5.6772 | 8.230 | 59,054 |
| | 109.540 | 121.190 | EAST WYMER, WA | THRALL, WA | M0 | East | 3.7266 | 11.650 | 54,872 |
| | | | | | | West | 5.6311 | 11.650 | 82,915 |
| | 121.190 | 126.230 | THRALL, WA | END SUB, WA | M0 | East | 3.7212 | 5.040 | 23,704 |
| | | | | | | West | 5.6273 | 5.040 | 35,846 |
| | 126.230 | 127.000 | BEGIN SUB, WA | ELLENSBURG, WA | M0 | East | 3.7212 | 0.770 | 3,621 |
| | | | | | | West | 5.6273 | 0.770 | 5,477 |
| | | | | | | | | | |
| 49 | 26.700 | 34.000 | YAKIMA County, Washington | MP 34, WA | M0 | East | 3.7837 | 7.300 | 34,910 |
| | | | ,, asimigton | | | West | 5.6423 | 7.300 | 52,059 |
| | 34.000 | 36.914 | MP 34, WA | EAST EASTON, WA | M0 | East | 3.7806 | 2.914 | 13,924 |
| | | | | | | West | 5.6410 | 2.914 | 20,776 |
| | 36.914 | 41.060 | EAST EASTON, WA | WEST EASTON, WA | M1 | East | 1.8916 | 4.146 | 9,912 |
| | | | | | | West | 2.8223 | 4.146 | 14,789 |
| | 36.914 | 41.060 | EAST EASTON, WA | WEST EASTON, WA | M2 | East | 1.8916 | 4.146 | 9,912 |
| | | | | | | West | 2.8223 | 4.146 | 14,789 |
| | 41.060 | 45.970 | WEST EASTON, WA | EAST MARTIN, WA | M0 | East | 3.7845 | 4.910 | 23,486 |
| | | | | | | West | 5.6463 | 4.910 | 35,040 |
| | 45.970 | 46.470 | EAST MARTIN, WA | WEST MARTIN, WA | M0 | East | 3.7845 | 0.500 | 2,392 |
| | | | | | | West | 5.6463 | 0.500 | 3,568 |
| | 46.470 | 47.529 | WEST MARTIN, WA | KING County, Washington | M0 | East | 3.7837 | 1.059 | 5,066 |
| | | | | | | West | 5.6455 | 1.059 | 7,558 |

KITTITAS County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|---------------------|--|-----------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | EPA Emission Factor Emissions in Tons/Year | | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 5.85 | 9.6 | 0.00 | 5.85 |
| Carbon Monoxide | 27.4 | 16.70 | 27.4 | 0.00 | 16.70 |
| Nitrogen Oxides | 172.5 | 105.15 | 172.5 | 0.00 | 105.15 |
| Particulates | 6 | 3.66 | 6 | 0.00 | 3.66 |
| Sulfur Dioxide | 16.3 | 9.94 | 16.3 | 0.00 | 9.94 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

KLICKITAT County, Washington

| | | | Locomotive Fuel Ra | te Per GTM/Gallon: | 79 : | 1.2 | | | |
|-----------------|------------------|----------------|--------------------------|--------------------------|-------------|--------------|--------------------------|-------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 47 | 72.822 | 75.922 | SKAMANIA | EAST COOKS, WA | M0 | East | 28.0873 | 3.100 | 110,045 |
| | | | County, Washington | | | West | 60.7948 | 3.100 | 238,192 |
| | 75.922 | 78.220 | EAST BINGEN, WA | WEST BINGEN, WA | M0 | East | 28.0940 | 2.298 | 81,598 |
| | | | | | | West | 60.8018 | 2.298 | 176,596 |
| | 78.220 | 86.200 | WEST LYLE, WA | EAST BINGEN, WA | M0 | East West | 28.0940 | 7.980 | 283,355 |
| | 86.200 | 97 000 | EACHINE WA | NICOTINE NA | 140 | East | 60.8018 28.0934 | 7.980 1.700 | 613,244 |
| | 80.200 | 87.900 | EAST LYLE, WA | WEST LYLE, WA | М0 | West | 60.8019 | 1.700 | 60,362 130,641 |
| | 87.900 | 91.870 | WEST NORTH DALLES, WA | EAST LYLE, WA | M0 | East | 28.0928 | 3.970 | 140,961 |
| | | | | | | West | 60.8021 | 3.970 | 305,086 |
| | 91.870 | 93.910 | EAST NORTH DALLES, WA | WEST NORTH DALLES, WA | M0 | East | 28.0928 | 2.040 | 72,433 |
| | | | DIELLS, WIT | Bribbes, Wi | | West | 60.8021 | 2.040 | 156,770 |
| | 93.910 | 102.380 | AVERY END 2MT, WA | EAST NORTH DALLES, WA | M0 | East | 28.0965 | 8.470 | 300,780 |
| | | | | | | West | 60.8246 | 8.470 | 651,143 |
| | 102.380 | 104.800 | WEST WISHRAM, WA | AVERY END 2MT, WA | M1 | East | 14.0583 | 2.420 | 42,999 |
| | | | | | | West | 30.4204 | 2.420 | 93,045 |
| | 102.380 | 104.800 | WEST WISHRAM, WA | AVERY END 2MT, WA | M2 | East | 14.0583 | 2.420 | 42,999 |
| | | | | | | West | 30.4204 | 2.420 | 93,045 |
| | 104.800 | 105.980 | WISHRAM BEGIN 2MT, WA | WEST WISHRAM, WA | M1 | East | 14.0774 | 1.180 | 20,995 |
| | | | | | | West | 30.4350 | 1.180 | 45,391 |
| | 104.800 | 105.980 | WISHRAM BEGIN 2MT, WA | WEST WISHRAM, WA | M2 | East | 14.0774 | 1.180 | 20,995 |
| | | | | | | West | 30.4350 | 1.180 | 45,391 |
| | 105.980 | 107.727 | EAST WISHRAM, WA | WISHRAM BEGIN 2MT, WA | M0 | East | 27.2755 | 1.747 | 60,225 |
| | | | | | | West | 62.2856 | 1.747 | 137,529 |
| | 107.727 | 112.837 | WEST MARYHILL, WA | EAST WISHRAM, WA | M0 | East | 27.2049 | 5.110 | 175,704 |
| | | | | | | West | 62.3995 | 5.110 | 403,010 |
| | 112.837 | 114.317 | EAST MARYHILL, WA | WEST MARYHILL, WA | M0 | East | 27.2050 | 1.480 | 50,889 |
| | | | | | | West | 62.3995 | 1.480 | 116,723 |
| | 114.317 | 123.846 | WEST TOWAL, WA | EAST MARYHILL, WA | M0 | East | 27.2060 | 9.529 | 327,662 |
| | | | | | | West | 62.3999 | 9.529 | 751,528 |
| | 123.846 | 125.712 | EAST TOWAL, WA | WEST TOWAL, WA | M0 | East | 27.2057 | 1.866 | 64,163 |
| | 105 710 | 125 101 | WEGE DAMES WA | EAST TOWAY W. | 140 | West | 62.3979 | 1.866 | 147,162 |
| | 125.712 | 155.191 | WEST BATES, WA | EAST TOWAL, WA | M0 | East West | 27.2041 62.3941 | 9.479 9.479 | 325,920 747,515 |

| | 135.191 | 136.670 | EAST BATES, WA | WEST BATES, WA | M0 | East | 27.2042 | 1.479 | 50,853 |
|----|---------|---------|-----------------------|------------------------------|------|------|---------|--------|---------|
| | 133.171 | 130.070 | LAST BATES, WA | WEST BATES, WA | 1410 | West | 62.3941 | 1.479 | 116,634 |
| | 136.670 | 147.046 | WEST ROOSEVELT, WA | EAST BATES, WA | M0 | East | 27.2044 | 10.376 | 356,765 |
| | | | | | | West | 62.3941 | 10.376 | 818,252 |
| | 147.046 | 148.780 | EAST ROOSEVELT, WA | WEST ROOSEVELT, WA | M0 | East | 25.2113 | 1.734 | 55,253 |
| | | | | | | West | 61.6814 | 1.734 | 135,181 |
| | 148.780 | 156.923 | WEST MCCREDIE, WA | EAST ROOSEVELT, WA | M0 | East | 23.6780 | 8.143 | 243,693 |
| | | | | | | West | 61.1331 | 8.143 | 629,180 |
| | 156.923 | 158.403 | EAST MCCREDIE, WA | WEST MCCREDIE, WA | M0 | East | 23.6781 | 1.480 | 44,292 |
| | | | | | | West | 61.1331 | 1.480 | 114,354 |
| | 158.403 | 164.882 | WEST WHITCOMB, WA | BENTON County, Washington | M0 | East | 23.6783 | 6.479 | 193,903 |
| | | | | S | | West | 61.1331 | 6.479 | 500,622 |
| | | | | | | | | | |
| 53 | 0.193 | 0.564 | WISHRAM, WA | WASCO County, Oregon | M0 | East | 4.6212 | 0.371 | 2,165 |
| | | | | <u>.</u> | | West | 7.1250 | 0.371 | 3,338 |
| | | | | | | | | | |

KLICKITAT County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage 10,298,580 92.4

KLICKITAT County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 108.95 | 9.6 | 0.00 | 108.95 |
| Carbon Monoxide | 27.4 | 310.96 | 27.4 | 0.00 | 310.96 |
| Nitrogen Oxides | 172.5 | 1957.71 | 172.5 | 0.00 | 1957.71 |
| Particulates | 6 | 68.09 | 6 | 0.00 | 68.09 |
| Sulfur Dioxide | 16.3 | 184.99 | 16.3 | 0.00 | 184.99 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

LEWIS County, Washington

| | Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | |
|-----------------|--|--|------------------------|-------------------------------|---------|--------------|--------------------------|-------------------|------------------------|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | |
| 52 | 50.569 | 52.434 | THURSTON County, | CENTRALIA NORTH, WA | M1 | East | 9.4635 | 1.865 | 22,310 | |
| | | | Washington | | | West | 13.7871 | 1.865 | 32,503 | |
| | 50.569 | 54.005 | THURSTON County, | CENTRALIA, WA | M2 | East | 9.4646 | 3.436 | 41,106 | |
| | | | Washington | | | West | 13.7924 | 3.436 | 59,902 | |
| | 52.434 | 54.005 | CENTRALIA NORTH, WA | CENTRALIA, WA | M1 | East | 9.4667 | 1.571 | 18,797 | |
| | | | | | | West | 13.8022 | 1.571 | 27,406 | |
| | 54.005 | 55.700 | CENTRALIA, WA | CENTRALIA SOUTH, WA | M1 | East | 10.4745 | 1.695 | 22,440 | |
| | | | | | | West | 17.6175 | 1.695 | 37,742 | |
| | 54.005 | 55.700 | CENTRALIA, WA | CENTRALIA SOUTH, WA | M2 | East | 10.4745 | 1.695 | 22,440 | |
| | | | | | | West | 17.6175 | 1.695 | 37,742 | |
| | 55.700 | 58.605 | CENTRALIA SOUTH, WA | CHEHALIS JCT, WA | M1 | East | 10.4275 | 2.905 | 38,286 | |
| | | | | | | West | 17.5745 | 2.905 | 64,527 | |
| | 55.700 58.605 CENTRALIA CHEI SOUTH, WA WA | CHEHALIS JCT, WA | M2 | East | 10.4275 | 2.905 | 38,286 | | | |
| | | | | West | 17.5745 | 2.905 | 64,527 | | | |
| | 58.605 | 66.307 | CHEHALIS JCT, WA | NAPAVINE SOUTH, WA | M1 | East | 10.3204 | 7.702 | 100,465 | |
| | | | | | | West | 17.4627 | 7.702 | 169,992 | |
| | 58.605 | 66.307 | CHEHALIS JCT, WA | NAPAVINE SOUTH, WA | M2 | East | 10.3204 | 7.702 | 100,465 | |
| | | | | | | West | 17.4627 | 7.702 | 169,992 | |
| | 66.307 | 72.000 | NAPAVINE SOUTH, WA | CP 72, WA | M1 | East | 10.3200 | 5.693 | 74,257 | |
| | | | | | | West | 17.3907 | 5.693 | 125,133 | |
| | 66.307 | 72.000 | NAPAVINE SOUTH, WA | CP 72, WA | M2 | East | 10.3200 | 5.693 | 74,257 | |
| | | | | | | West | 17.3907 | 5.693 | 125,133 | |
| | 72.000 | 77.073 | CP 72, WA | VADER, WA | M1 | East West | 10.3200 17.3907 | 5.073 5.073 | 66,170 111,505 | |
| | 72.000 | 77.073 | CP 72, WA | VADER, WA | M2 | East West | 10.3200 17.3907 | 5.073 5.073 | 66,170 111,505 | |
| | 77.073 | 79.006 | VADER, WA | COWLITZ County, Washington | M1 | East | 10.3190 | 1.933 | 25,214 | |
| | | | | <i>G</i> | | West | 17.3967 | 1.933 | 42,508 | |
| 77.073 79.006 v | | 006 VADER, WA COWLITZ County, Washington | M2 | East | 10.3190 | 1.933 | 25,214 | | | |
| | | | | | | West | 17.3967 | 1.933 | 42,508 | |

LEWIS County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | | |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|--|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year | |
| Hydrocarbon | g/gal 9.6 | 20.72 | g/gal 9.6 | 1.06 | 21.78 | |
| Carbon Monoxide | 27.4 | 59.14 | 27.4 | 3.02 | 62.16 | |
| Nitrogen Oxides | 172.5 | 372.30 | 172.5 | 19.01 | 391.31 | |
| Particulates | 6 | 12.95 | 6 | 0.66 | 13.61 | |
| Sulfur Dioxide | 16.3 | 35.18 | 16.3 | 1.80 | 36.98 | |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

LINCOLN County, Washington

| | Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | |
|-----------------|--|----------------|-------------------------------|-----------------------------|-------|--------------|--------------------------|-------------------|---------------------|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | |
| 37 | 1504.018 | 1509.913 | SPOKANE County, Washington | EAST EDWALL, WA | M0 | East | 14.3431 | 5.895 | 106,864 | |
| | | | | | | West | 12.4133 | 5.895 | 92,486 | |
| | 1509.913 | 1511.497 | EAST EDWALL, WA | WEST EDWALL, WA | M0 | East | 14.3432 | 1.584 | 28,715 | |
| | | | | | | West | 12.4135 | 1.584 | 24,852 | |
| | 1511.497 | 1520.629 | WEST EDWALL, WA | BLUESTEM, WA | M0 | East | 14.3433 | 9.132 | 165,550 | |
| | | | | | | West | 12.4124 | 9.132 | 143,263 | |
| | 1520.629 | 1541.762 | BLUESTEM, WA | LAMONA, WA | M1 | East West | 7.1637 6.1984 | 21.133 21.133 | 191,343 165,560 | |
| | 1520.629 | 1541.762 | BLUESTEM, WA | LAMONA, WA | M2 | East | 7.1637 | 21.133 | 191,343 | |
| | | | | | | West | 6.1984 | 21.133 | 165,560 | |
| | 1541.762 | 1551.567 | LAMONA, WA | EAST ODESSA, WA | M0 | East | 14.3193 | 9.805 | 177,453 | |
| | | | | | | West | 12.3892 | 9.805 | 153,534 | |
| | 1551.567 | 1553.492 | EAST ODESSA, WA | WEST ODESSA, WA | M0 | East | 14.3186 | 1.925 | 34,837 | |
| | | | | | | West | 12.3878 | 1.925 | 30,140 | |
| | 1553.492 | 1564.588 | WEST ODESSA, WA | EAST GIBSON, WA | M0 | East | 14.3171 | 11.096 | 200,787 | |
| | | | | | | West | 12.3859 | 11.096 | 173,703 | |
| | 1564.588 | 1566.552 | EAST GIBSON, WA | WEST GIBSON, WA | M0 | East | 14.3169 | 1.964 | 35,539 | |
| | | | | | | West | 12.3866 | 1.964 | 30,747 | |
| | 1566.552 | 1568.952 | WEST GIBSON, WA | GRANT County, Washington | M0 | East | 14.3047 | 2.400 | 43,396 | |
| | | | | | | West | 12.3869 | 2.400 | 37,578 | |
| 46 | 30.306 | 31.388 | SPOKANE County, Washington | WEST FISHTRAP, WA | M0 | East | 27.5612 | 1.082 | 37,685 | |
| | | | washington | WA | | West | 66.9860 | 1.082 | 91,591 | |
| | 31.388 | 42.117 | WEST FISHTRAP, WA | EAST SPRAGUE, WA | M0 | East | 27.3672 | 10.729 | 371,111 | |
| | | | | | | West | 66.9985 | 10.729 | 908,527 | |
| | 42.117 | 43.803 | EAST SPRAGUE, WA | WEST SPRAGUE, WA | M0 | East | 27.2235 | 1.686 | 58,012 | |
| | | | | | | West | 66.9907 | 1.686 | 142,753 | |
| | 43.803 | 46.859 | WEST SPRAGUE, WA | ADAMS County, Washington | M0 | East | 27.2208 | 3.056 | 105,123 | |
| | | | | | | West | 66.9875 | 3.056 | 258,698 | |
| 378 | 23.675 | 89.785 | SPOKANE County, | GRANT County, | M1 | East | 0.0000 | 66.110 | 0 | |
| | | | Washington | Washington | | West | 0.0000 | 66.110 | 0 | |

LINCOLN County

| | LINE HAUL LOCOMOTIVES EPA Emission Factor Emissions in Tons/Year | | YARD LOCOMOTIVE | TOTAL | |
|-----------------|---|--------|---------------------|------------------------|--------|
| POLLUTANT | | | EPA Emission Factor | Emissions in Tons/Year | |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 44.08 | 9.6 | 0.00 | 44.08 |
| Carbon Monoxide | 27.4 | 125.81 | 27.4 | 0.00 | 125.81 |
| Nitrogen Oxides | 172.5 | 792.08 | 172.5 | 0.00 | 792.08 |
| Particulates | 6 | 27.55 | 6 | 0.00 | 27.55 |
| Sulfur Dioxide | 16.3 | 74.85 | 16.3 | 0.00 | 74.85 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

MASON County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

Locomotive Fuel Rate Per GTM/Gallon: 791.2

Fuel Use То From To Line From Track Direction Distance Density Segment Milepost Milepost Station Station Million in Miles in Gallons GT

MASON County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage

0 0.0

MASON County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|--|---------|---------------------|------------------------|------|
| POLLUTANT | EPA Emission Factor Emissions in Tons/Year | | EPA Emission Factor | Emissions in Tons/Year | |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 0.00 | 9.6 | 0.00 | 0.00 |
| Carbon Monoxide | 27.4 | 0.00 | 27.4 | 0.00 | 0.00 |
| Nitrogen Oxides | 172.5 | 0.00 | 172.5 | 0.00 | 0.00 |
| Particulates | 6 | 0.00 | 6 | 0.00 | 0.00 |
| Sulfur Dioxide | 16.3 | 0.00 | 16.3 | 0.00 | 0.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year.

The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

OKANOGAN County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

Locomotive Fuel Rate Per GTM/Gallon: 791.2

Fuel Use Line From То From To Track Direction Distance Density Segment Milepost Milepost Station Station Million in Miles in Gallons GT

OKANOGAN County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons

0 **Estimated 2008 Main Line Mileage** 0.0

OKANOGAN County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL Emissions in Tons/Year | |
|-----------------|--|---------|---------------------|------------------------------------|------|
| POLLUTANT | EPA Emission Factor Emissions in Tons/Year | | EPA Emission Factor | | |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 0.00 | 9.6 | 0.00 | 0.00 |
| Carbon Monoxide | 27.4 | 0.00 | 27.4 | 0.00 | 0.00 |
| Nitrogen Oxides | 172.5 | 0.00 | 172.5 | 0.00 | 0.00 |
| Particulates | 6 | 0.00 | 6 | 0.00 | 0.00 |
| Sulfur Dioxide | 16.3 | 0.00 | 16.3 | 0.00 | 0.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year.

The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

PACIFIC County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

Locomotive Fuel Rate Per GTM/Gallon: 791.2

То From To Density Fuel Use Line From Track Direction Distance Segment Milepost Milepost Station Station Million in Miles in Gallons GT

PACIFIC County, Washington Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons

Estimated 2008 Main Line Mileage 0.0

PACIFIC County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|--|---------|---------------------|------------------------|------|
| POLLUTANT | EPA Emission Factor Emissions in Tons/Year | | EPA Emission Factor | Emissions in Tons/Year | |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 0.00 | 9.6 | 0.00 | 0.00 |
| Carbon Monoxide | 27.4 | 0.00 | 27.4 | 0.00 | 0.00 |
| Nitrogen Oxides | 172.5 | 0.00 | 172.5 | 0.00 | 0.00 |
| Particulates | 6 | 0.00 | 6 | 0.00 | 0.00 |
| Sulfur Dioxide | 16.3 | 0.00 | 16.3 | 0.00 | 0.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9. The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

PEND OREILLE County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

Locomotive Fuel Rate Per GTM/Gallon: 791.2

То To Fuel Use Line From From Track Direction Density Distance Segment Milepost Milepost Station Station Million in Miles in Gallons GT

PEND OREILLE County, Washington **Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons** 0 **Estimated 2008 Main Line Mileage** 0.0

PEND OREILLE County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL Emissions in Tons/Year | |
|-----------------|--|---------|---------------------|------------------------------------|------|
| POLLUTANT | EPA Emission Factor Emissions in Tons/Year | | EPA Emission Factor | | |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 0.00 | 9.6 | 0.00 | 0.00 |
| Carbon Monoxide | 27.4 | 0.00 | 27.4 | 0.00 | 0.00 |
| Nitrogen Oxides | 172.5 | 0.00 | 172.5 | 0.00 | 0.00 |
| Particulates | 6 | 0.00 | 6 | 0.00 | 0.00 |
| Sulfur Dioxide | 16.3 | 0.00 | 16.3 | 0.00 | 0.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

PIERCE County, Washington

| Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | |
|--|------------------|----------------|--|---------------------|-------|--------------|--------------------------|-------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 51 | 24.865 | 29.660 | KING County, Washington | CP SUMNER, WA | M1 | East | 12.2348 | 4.795 | 74,145 |
| | | | , and the second | | | West | 13.1032 | 4.795 | 79,408 |
| | 24.865 | 29.660 | KING County, Washington | CP SUMNER, WA | M2 | East | 12.2348 | 4.795 | 74,145 |
| | | | | | | West | 13.1032 | 4.795 | 79,408 |
| | 29.660 | 33.940 | CP SUMNER, WA | STEWART, WA | M1 | East West | 12.2213 13.1108 | 4.280 4.280 | 66,111 70,923 |
| | 29.660 | 33.940 | CP SUMNER, WA | STEWART, WA | M2 | East | 12.2213 | 4.280 | 66,111 |
| | | | | | | West | 13.1108 | 4.280 | 70,923 |
| | 33.940 | 37.830 | STEWART, WA | CLEAR CREEK, WA | M1 | East | 12.2109 | 3.890 | 60,036 |
| | | | | | | West | 13.1160 | 3.890 | 64,486 |
| | 33.940 | 37.830 | STEWART, WA | CLEAR CREEK, WA | M2 | East | 12.2109 | 3.890 | 60,036 |
| | | | | | | West | 13.1160 | 3.890 | 64,486 |
| | 37.830 | 38.240 | CLEAR CREEK, WA | TR JCT, WA | M1 | East | 12.2037 | 0.410 | 6,324 |
| | | | | | | West | 13.1364 | 0.410 | 6,807 |
| | 37.830 | 38.240 | CLEAR CREEK, WA | TR JCT, WA | M2 | East | 12.2037 | 0.410 | 6,324 |
| | | | | | | West | 13.1364 | 0.410 | 6,807 |
| | 38.240 | 38.570 | TR JCT, WA | BAY STREET, WA | M1 | East | 12.1690 | 0.330 | 5,076 |
| | | | | | | West | 13.2355 | 0.330 | 5,520 |
| | 38.240 | 38.570 | TR JCT, WA | BAY STREET, WA | M2 | East West | 12.1690 13.2355 | 0.330 0.330 | 5,076 5,520 |
| | 38.570 | 38.900 | BAY STREET, WA | RIVER STREET, WA | M1 | East | 12.1690 | 0.330 | 5,076 |
| | | | | WA | | West | 13.2355 | 0.330 | 5,520 |
| | 38.570 | 39.040 | BAY STREET, WA | CP TACOMA, WA | M2 | East | 12.1690 | 0.470 | 7,229 |
| | | | | | | West | 13.2355 | 0.470 | 7,862 |
| | 39.040 | 39.591 | CP TACOMA, WA | D STREET, WA | M2 | East | 12.1690 | 0.551 | 8,475 |
| | | | | | | West | 13.2355 | 0.551 | 9,217 |
| | 39.591 | 40.023 | D STREET, WA | END STATE, WA | M2 | East | 12.1690 | 0.432 | 6,644 |
| | | | | | | West | 13.2355 | 0.432 | 7,227 |
| 52 | 0.000 | 1.400 | 21ST STREET, WA | DAVIS, WA | M1 | East | 9.6622 | 1.400 | 17,097 |
| | | | | | | West | 13.8566 | 1.400 | 24,519 |
| | 0.000 | 3.220 | 21ST STREET, WA | HARBOR, WA | M2 | East | 9.6654 | 3.220 | 39,336 |
| | | | | | | West | 13.8551 | 3.220 | 56,387 |

| | 1.400 | 3.220 | DAVIS, WA | HARBOR, WA | M1 | East West | 9.6679 13.8540 | 1.820 1.820 | 22,239 31,868 |
|-----|--------|--------|-----------------------|-----------------------|----|--------------|-------------------|------------------|--------------------|
| | 3.220 | 5.140 | HARBOR, WA | RUSTON, WA | M1 | East West | 9.6679 13.8540 | 1.920 1.920 | 23,461 33,619 |
| | 3.220 | 5.140 | HARBOR, WA | RUSTON, WA | M2 | East West | 9.6679 13.8540 | 1.920 1.920 | 23,461 33,619 |
| | 5.140 | 6.550 | RUSTON, WA | NELSON BENNETT, WA | M0 | East | 19.3016 | 1.410 | 34,397 |
| | | | | | | West | 27.6963 | 1.410 | 49,358 |
| | 6.550 | 10.000 | NELSON BENNETT, WA | TITLOW, WA | M1 | East | 9.6449 | 3.450 | 42,056 |
| | | | | | | West | 13.8461 | 3.450 | 60,375 |
| | 6.550 | 10.000 | NELSON BENNETT, WA | TITLOW, WA | M2 | East | 9.6449 | 3.450 | 42,056 |
| | | | | | | West | 13.8461 | 3.450 | 60,375 |
| | 10.000 | 13.567 | TITLOW, WA | PIONEER, WA | M1 | East West | 9.6436 13.8448 | 3.567 3.567 | 43,477 62,417 |
| | 10.000 | 13.567 | TITLOW, WA | PIONEER, WA | M2 | East West | 9.6436 13.8448 | 3.567 3.567 | 43,477 62,417 |
| | 13.567 | 24.701 | PIONEER, WA | NISQUALLY, WA | M1 | East West | 9.6349 13.8343 | 11.134 11.134 | 135,585 194,680 |
| | 13.567 | 24.701 | PIONEER, WA | NISQUALLY, WA | M2 | East West | 9.6349 13.8343 | 11.134 11.134 | 135,585 194,680 |
| | 24.701 | 25.380 | NISQUALLY, WA | THURSTON County, | M1 | East | 9.5609 | 0.679 | 8,205 |
| | | | | Washington | | West | 13.8212 | 0.679 | 11,861 |
| | 24.701 | 25.380 | NISQUALLY, WA | THURSTON County, | M2 | East | 9.5609 | 0.679 | 8,205 |
| | | | | Washington | | West | 13.8212 | 0.679 | 11,861 |
| 400 | 0.794 | 3.000 | BEGIN STATE, WA | S TACOMA, WA | M0 | East | 0.0542 | 2.206 | 151 |
| | | | | | | West | 0.0151 | 2.206 | 42 |
| | 8.920 | 9.700 | WEST LAKEVIEW, WA | MP 9.7, WA | M0 | East | 0.0670 | 0.780 | 66 |
| | | | | | | West | 0.1284 | 0.780 | 127 |
| | 9.700 | 20.050 | MP 9.7, WA | EAST ROY, WA | M0 | East West | 0.0571 0.1081 | 10.350 10.350 | 747 |
| | 20.050 | 20.050 | | | | | | | 1,414 |
| | 20.050 | 20.950 | EAST ROY, WA | WEST ROY, WA | M0 | East West | 0.0542 0.1022 | 0.900 0.900 | 62 116 |
| 401 | 0.000 | 11.325 | LAKEVIEW, WA | END STATE, WA | M0 | East West | 0.1133 0.0128 | 11.325 11.325 | 1,622 183 |

PIERCE County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | S * 8 | TOTAL |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 25.88 | 9.6 | 4.23 | 30.11 |
| Carbon Monoxide | 27.4 | 73.86 | 27.4 | 12.08 | 85.94 |
| Nitrogen Oxides | 172.5 | 465.00 | 172.5 | 76.04 | 541.03 |
| Particulates | 6 | 16.17 | 6 | 2.64 | 18.82 |
| Sulfur Dioxide | 16.3 | 43.94 | 16.3 | 7.19 | 51.12 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

SKAGIT County, Washington

| Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | | |
|--|------------------|----------------|-------------------------|-------------------------|-------|-----------|--------------------------|-------------------|---------------------|--|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | | |
| 50 | 59.497 | 66.145 | SNOHOMISH County, | SOUTH MT VERNON, WA | M0 | East | 13.7597 | 6.648 | 115,608 | | |
| | | | Washington | | | West | 9.9717 | 6.648 | 83,782 | | |
| | 66.145 | 67.434 | SOUTH MT VERNON, WA | NORTH MT VERNON, WA | M0 | East | 13.7633 | 1.289 | 22,423 | | |
| | | | | | | West | 9.9707 | 1.289 | 16,244 | | |
| | 67.434 | 70.362 | NORTH MT VERNON, WA | SOUTH BURLINGTON, WA | M0 | East | 13.7784 | 2.928 | 50,990 | | |
| | | | | | | West | 9.9640 | 2.928 | 36,874 | | |
| | 70.362 | 71.870 | SOUTH BURLINGTON, WA | BURLINGTON, WA | M0 | East | 13.8077 | 1.508 | 26,317 | | |
| | | | | | | West | 9.9512 | 1.508 | 18,967 | | |
| | 71.870 | 72.076 | BURLINGTON, WA | NORTH BURLINGTON, WA | M0 | East | 11.9679 | 0.206 | 3,116 | | |
| | | | | | | West | 8.4630 | 0.206 | 2,203 | | |
| | 72.076 | 79.074 | NORTH BURLINGTON, WA | SOUTH BOW, WA | M0 | East | 11.9679 | 6.998 | 105,854 | | |
| | | | | | | West | 8.4630 | 6.998 | 74,853 | | |
| | 79.074 | 80.907 | SOUTH BOW, WA | NORTH BOW, WA | M0 | East | 11.8237 | 1.833 | 27,392 | | |
| | | | | | | West | 8.4535 | 1.833 | 19,585 | | |
| | 80.907 | 86.845 | NORTH BOW, WA | WHATCOM County, | M0 | East | 11.7984 | 5.938 | 88,544 | | |
| | | | | Washington | | West | 8.4436 | 5.938 | 63,367 | | |
| 403 | 85.781 | 93.570 | SEDRO WOOLLEY, WA | WEST THORNWOOD, WA | M0 | East | 0.6093 | 7.789 | 5,998 | | |
| | | | | | | West | 0.7701 | 7.789 | 7,581 | | |
| | 93.570 | 98.241 | WEST THORNWOOD, WA | WHATCOM County, | M0 | East | 0.6134 | 4.671 | 3,621 | | |
| | | | | Washington | | West | 0.7563 | 4.671 | 4,465 | | |
| 409 | 3.980 | 16.610 | ANACORTES, WA | BURLINGTON, WA | M0 | East | 0.7376 | 12.630 | 11,774 | | |
| | | | | | | West | 0.9229 | 12.630 | 14,732 | | |
| | 16.610 | 22.000 | BURLINGTON, WA | SEDRO WOOLLEY, WA | M0 | East | 0.6120 | 5.390 | 4,169 | | |
| | | | | | | West | 0.7728 | 5.390 | 5,265 | | |

SKAGIT County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | S* 4 | TOTAL | |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|--|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year | |
| | g/gal | | g/gal | | | |
| Hydrocarbon | 9.6 | 8.61 | 9.6 | 2.12 | 10.72 | |
| Carbon Monoxide | 27.4 | 24.57 | 27.4 | 6.04 | 30.61 | |
| Nitrogen Oxides | 172.5 | 154.69 | 172.5 | 38.02 | 192.70 | |
| Particulates | 6 | 5.38 | 6 | 1.32 | 6.70 | |
| Sulfur Dioxide | 16.3 | 14.62 | 16.3 | 3.59 | 18.21 | |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

SKAMANIA County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

| | Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | | | |
|-----------------|--|----------------|-----------------------------|---------------------------------|---------|---------------|--------------------------|----------------------|---------------------|--|--|--|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | | | | |
| 47 | 32.217 | 41.512 | CLARK County, Washington | EAST WASHOUGAL, WA | M0 | East | 28.0317 | 9.295 | 329,321 | | | | |
| | | | | | | West | 60.8037 | 9.295 | 714,332 | | | | |
| | 41.512 | 43.601 | EAST SKAMANIA, WA | WEST SKAMANIA, WA | M0 | East | 28.0292 | 2.089 | 74,005 | | | | |
| | | | | | | West | 60.7996 | 2.089 | 160,529 | | | | |
| | 43.601 | 53.675 | WEST STEVENSON, WA | EAST SKAMANIA, WA | M0 | East | 28.0287 | 10.074 | 356,877 | | | | |
| | | | | | | West | 60.8036 | 10.074 | 774,185 | | | | |
| | 53.675 | 55.887 | EAST STEVENSON, WA | WEST STEVENSON, WA | M0 | East | 27.9624 | 2.212 | 78,176 | | | | |
| | | | | | | West | 60.7342 | 2.212 | 169,798 | | | | |
| | 55.887 | 63.928 | WEST COOKS, WA | EAST STEVENSON, WA | M0 | East | 28.0354 | 8.041 | 284,925 | | | | |
| | | | | | | West | 60.7662 | 8.041 | 617,570 | | | | |
| | 63.928 | 65.941 | EAST COOKS, WA | WEST COOKS, WA | M0 | East | 28.0920 | 2.013 | 71,473 | | | | |
| | | | | | | West | 60.7935 | 2.013 | 154,673 | | | | |
| | 65.941 | 72.822 | WEST BINGEN, WA | KLICKITAT County, Washington | M0 | East | 28.0873 | 6.881 | 244,277 | | | | |
| | | | | | | West | 60.7948 | 6.881 | 528,736 | | | | |
| SK | AMANIA (| County, Wa | ashington | Estimated 2008 | Line Ha | nul Locomotiv | e Fuel Consum | ption in Gallons | 4,558,876 | | | | |

SKAMANIA County

2008 Estimation of BNSF Locomotive Emissions

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | S* 0 | TOTAL |
|-----------------|----------------------------|--------------|----------------------------|--------------|------------------|
| POLLUTANT | EPA Emission Factor | Emissions | EPA Emission Factor | Emissions | Emissions |
| | | in Tons/Year | | in Tons/Year | in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 48.23 | 9.6 | 0.00 | 48.23 |
| Carbon Monoxide | 27.4 | 137.65 | 27.4 | 0.00 | 137.65 |
| Nitrogen Oxides | 172.5 | 866.62 | 172.5 | 0.00 | 866.62 |
| Particulates | 6 | 30.14 | 6 | 0.00 | 30.14 |
| Sulfur Dioxide | 16.3 | 81.89 | 16.3 | 0.00 | 81.89 |

Estimated 2008 Main Line Mileage

40.6

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9. The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

SNOHOMISH County, Washington

| | | | Locomotive Fuel Rat | te Per GTM/Gallon: | 79 : | 1.2 | | | |
|-----------------|------------------|----------------|----------------------------|---------------------------|-------------|--------------|--------------------------|----------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 37 | 1740.317 | 1740.534 | KING County, | WEST BARING, | M0 | East | 14.7398 | 0.217 | 4,048 |
| | | | Washington | WA | | West | 13.2073 | 0.217 | 3,628 |
| | 1740.534 | 1754.608 | WEST BARING, WA | EAST GOLD BAR, WA | M0 | East | 14.7398 | 14.074 | 262,194 |
| | | | WA | WA | | West | 13.2076 | 14.074 | 234,939 |
| | 1754.608 | 1756.726 | EAST GOLD BAR, WA | WEST GOLD BAR, WA | M0 | East | 14.7790 | 2.118 | 39,563 |
| | | | WA | WA | | West | 13.2271 | 2.118 | 35,408 |
| | 1756.726 | 1768.334 | WEST GOLD BAR, WA | EAST MONROE, WA | M0 | East | 14.8267 | 11.608 | 217,528 |
| | | | | ,,,, | | West | 13.2510 | 11.608 | 194,411 |
| | 1768.334 | 1770.652 | EAST MONROE, WA | WEST MONROE, WA | M0 | East | 14.8402 | 2.318 | 43,478 |
| | | | | | | West | 13.2501 | 2.318 | 38,819 |
| | 1770.652 | 1776.213 | WEST MONROE, WA | SNOHOMISH JCT WEST, WA | M0 | East | 14.8524 | 5.561 | 104,391 |
| | | | | , , , | | West | 13.2573 | 5.561 | 93,180 |
| | 1776.213 | 1781.142 | SNOHOMISH JCT WEST, WA | LOWELL, WA | M0 | East | 14.9362 | 4.929 | 93,049 |
| | | | | | | West | 13.3141 | 4.929 | 82,944 |
| | 1781.142 | 1782.608 | LOWELL, WA | PA JCT, WA | M0 | East West | 14.8803 13.3078 | 1.466 1.466 | 27,571 24,658 |
| | 1782.608 | 1782.900 | PA JCT, WA | BROADWAY, WA | M0 | East West | 24.7730 26.8968 | 0.292 0.292 | 9,143 9,927 |
| | 1782.900 | 1784.475 | BROADWAY, WA | END STATE, WA | M0 | East West | 23.6106 26.0222 | 1.575 1.575 | 47,000 51,801 |
| 50 | 15.007 | 15.874 | KING County, Washington | BLUE RIDGE, WA | M1 | East | 11.0337 | 0.867 | 12,085 |
| | 15.007 | 15.074 | | | | West | 12.3223 | 0.867 | 13,497 |
| | 15.007 | 15.874 | KING County, Washington | BLUE RIDGE, WA | M2 | East | 11.0337 | 0.867 | 12,085 |
| | 15 074 | 17.706 | ND 10 W/1 | NO 16 WA | | West East | 12.3223 22.0945 | 0.867 1.922 | 13,497 |
| | 15.874 | 17.796 | MP 18, WA | MP 16, WA | M0 | West | 24.7112 | 1.922 | 53,672 60,029 |
| | 17.796 | 27.050 | MP 27, WA | MP 18, WA | M1 | East West | 11.0294 12.3928 | 9.254 9.254 | 129,002 144,948 |
| | 17.796 | 27.050 | MP 27, WA | MP 18, WA | M2 | East West | 11.0294 12.3928 | 9.254 9.254 | 129,002 144,948 |
| | 27.050 | 27.837 | MP 28, WA | MP 27, WA | M0 | East West | 22.0588 24.7857 | 0.787 0.787 | 21,942 24,654 |

| | 27.837 | 28.923 | CP MUKILTEO, WA | MP 28, WA | M1 | East West | 11.0455 12.4098 | 1.086 1.086 | 15,161 17,034 |
|-----|--------|--------|----------------------------|------------------------------|----|--------------|--------------------|----------------|------------------|
| | 27.837 | 28.923 | CP MUKILTEO, WA | MP 28, WA | M2 | East West | 11.0455 12.4098 | 1.086 1.086 | 15,161 17,034 |
| | 28.923 | 31.449 | HOWARTH PARK, WA | CP MUKILTEO, WA | M1 | East | 11.0543 | 2.526 | 35,292 |
| | | | W/1 | | | West | 12.4201 | 2.526 | 39,653 |
| | 28.923 | 31.449 | HOWARTH PARK, WA | CP MUKILTEO, WA | M2 | East | 11.0543 | 2.526 | 35,292 |
| | | | ,,,,, | | | West | 12.4201 | 2.526 | 39,653 |
| | 31.449 | 32.159 | EVERETT JCT, WA | HOWARTH PARK, WA | M1 | East | 10.2906 | 0.710 | 9,234 |
| | | | | | | West | 11.5623 | 0.710 | 10,376 |
| | 31.449 | 32.159 | EVERETT JCT, WA | HOWARTH PARK, WA | M2 | East | 10.2906 | 0.710 | 9,234 |
| | | | | ,,,, | | West | 11.5623 | 0.710 | 10,376 |
| | 32.159 | 32.160 | EVERETT JCT, WA | END SUB, WA | M0 | East West | 0.0026 0.0039 | 0.001 0.001 | 0 |
| | 32.160 | 36.980 | BEGIN SUB, WA | BRIDGE 37, WA | M0 | East West | 0.0026 0.0039 | 4.820 4.820 | 16 24 |
| | 36.980 | 37.685 | BRIDGE 37, WA | BRIDGE 37.8, WA | M0 | East West | 13.3521 9.6998 | 0.705 0.705 | 11,897 8,643 |
| | 37.685 | 38.237 | BRIDGE 37.8, WA | BRIDGE 38.3, WA | M0 | East West | 13.7419 9.9829 | 0.552 0.552 | 9,587 6,965 |
| | 38.237 | 44.775 | BRIDGE 38.3, WA | SOUTH ENGLISH, WA | M0 | East | 13.7580 | 6.538 | 113,688 |
| | | | | WA | | West | 9.9819 | 6.538 | 82,484 |
| | 44.775 | 46.238 | SOUTH ENGLISH, WA | NORTH ENGLISH, WA | M0 | East | 13.7767 | 1.463 | 25,474 |
| | | | W.11 | ,,,, | | West | 9.9781 | 1.463 | 18,450 |
| | 46.238 | 55.179 | NORTH ENGLISH, WA | SOUTH STANWOOD, WA | M0 | East | 13.7764 | 8.941 | 155,681 |
| | | | | | | West | 9.9773 | 8.941 | 112,749 |
| | 55.179 | 56.547 | SOUTH STANWOOD, WA | NORTH STANWOOD, WA | M0 | East | 13.7614 | 1.368 | 23,794 |
| | | | , | , | | West | 9.9732 | 1.368 | 17,244 |
| | 56.547 | 59.497 | NORTH STANWOOD, WA | SKAGIT County, Washington | M0 | East | 13.7597 | 2.950 | 51,310 |
| | | | | | | West | 9.9717 | 2.950 | 37,184 |
| 403 | 26.377 | 30.190 | KING County, Washington | EAST MALTBY, WA | M0 | East | 0.1041 | 3.813 | 502 |
| | | | , asimgton | ,,,, | | West | 0.0877 | 3.813 | 423 |
| | 30.190 | 39.110 | EAST MALTBY, WA | BROMART, WA | M0 | East | 0.1100 | 8.920 | 1,240 |
| | | | | | | West | 0.0866 | 8.920 | 976 |
| 406 | 0.000 | 7.140 | KRUSE JCT, WA | END SUB, WA | M0 | East West | 0.4709 0.4481 | 7.140 7.140 | 4,250 4,044 |
| | 7.140 | 8.190 | BEGIN SUB, WA | ARLINGTON, WA | M0 | East West | 0.4709 0.4481 | 1.050 1.050 | 625 595 |

| 407 | 0.000 | 0.714 | PA JUNCTION, WA | END STATE, WA | M0 | East West | 13.6841 9.9721 | 0.714 0.714 | 12,349 8,999 |
|-----|-------|--------|-----------------|---------------|----|--------------|-------------------|----------------|------------------|
| 408 | 6.400 | 8.010 | DELTA JCT, WA | END SUB, WA | M0 | East West | 7.6681 5.5542 | 1.610 1.610 | 15,604 11,302 |
| | 8.010 | 10.894 | BEGIN SUB, WA | END SUB, WA | M0 | East West | 7.6681 5.5542 | 2.884 2.884 | 27,951 20,246 |

SNOHOMISH County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage

3,414,834 114.8

SNOHOMISH County

| | LINE HAUL LOCO | MOTIVES | YARD LOCOMOTIVE | S* 4 | TOTAL |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 36.13 | 9.6 | 2.12 | 38.24 |
| Carbon Monoxide | 27.4 | 103.11 | 27.4 | 6.04 | 109.15 |
| Nitrogen Oxides | 172.5 | 649.14 | 172.5 | 38.02 | 687.16 |
| Particulates | 6 | 22.58 | 6 | 1.32 | 23.90 |
| Sulfur Dioxide | 16.3 | 61.34 | 16.3 | 3.59 | 64.93 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

SPOKANE County, Washington

| | Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | | |
|-----------------|--|----------------|---------------------------|-------------------------------|-------|--------------|--------------------------|-------------------|---------------------|--|--|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | | | |
| 37 | 1463.630 | 1468.100 | DEAN, WA | MEAD, WA | M0 | East West | 1.3797 2.1548 | 4.470 4.470 | 7,795 12,174 | | | |
| | 1468.100 | 1473.000 | MEAD, WA | HILLYARD, WA | M0 | East West | 3.0409 2.1877 | 4.900 4.900 | 18,833 13,549 | | | |
| | 1473.000 | 1475.400 | HILLYARD, WA | MP 1475.4, WA | M0 | East West | 3.1511 2.5057 | 2.400 2.400 | 9,558 7,601 | | | |
| | 1475.400 | 1476.200 | MP 1475.4, WA | NAPA STREET, WA | M0 | East West | 3.1511 2.5057 | 0.800 0.800 | 3,186 2,534 | | | |
| | 1481.652 | 1489.198 | LATAH JCT, WA | EAST LYONS, WA | M0 | East West | 14.3683 12.4526 | 7.546 7.546 | 137,036 118,766 | | | |
| | 1489.198 | 1490.760 | EAST LYONS, WA | WEST LYONS, WA | M0 | East West | 14.3683 12.4526 | 1.562 1.562 | 28,366 24,584 | | | |
| | 1490.760 | 1498.649 | WEST LYONS, WA | EAST ESPANOLA, WA | M0 | East | 14.3600 | 7.889 | 143,183 | | | |
| | 1498.649 | 1500.150 | EAST ESPANOLA, | WEST ESPANOLA, | M0 | West East | 12.4349 14.3458 | 7.889 1.501 | 123,988 27,216 | | | |
| | | | WA | WA | | West | 12.4126 | 1.501 | 23,548 | | | |
| | 1500.150 | 1504.018 | WEST ESPANOLA, WA | LINCOLN County, Washington | M0 | East | 14.3431 | 3.868 | 70,122 | | | |
| | | | WA | washington | | West | 12.4133 | 3.868 | 60,687 | | | |
| 45 | 53.046 | 58.889 | KOOTENAI County, Idaho | OTIS ORCHARDS, WA | M1 | East | 20.9506 | 5.843 | 154,714 | | | |
| | | | | | | West | 40.8284 | 5.843 | 301,506 | | | |
| | 53.046 | 58.889 | KOOTENAI County, Idaho | OTIS ORCHARDS, WA | M2 | East | 20.9506 | 5.843 | 154,714 | | | |
| | 58.889 | 62.990 | OTIS ORCHARDS, | IRVIN, WA | M0 | West East | 40.8284 42.0448 | 5.843 4.101 | 301,506 217,929 | | | |
| | 30.007 | 02.770 | WA | IKVIII, WA | MO | West | 81.6998 | 4.101 | 423,472 | | | |
| | 62.990 | 65.840 | IRVIN, WA | PARKWATER, WA | M1 | East West | 21.0973 40.8642 | 2.850 2.850 | 75,995 147,198 | | | |
| | 62.990 | 65.840 | IRVIN, WA | PARKWATER, WA | M2 | East West | 21.0973 40.8642 | 2.850 2.850 | 75,995 147,198 | | | |
| | 65.840 | 68.100 | PARKWATER, WA | HAVANNA STREET, WA | M1 | East | 21.1154 | 2.260 | 60,314 | | | |
| | 65.840 | 68.100 | DADVWATED WA | LI A V/ A NINI A | M2 | West East | 40.8663 21.1154 | 2.260 2.260 | 116,731 60,314 | | | |
| | 03.840 | 06.100 | PARKWATER, WA | HAVANNA STREET, WA | M2 | West | 40.8663 | 2.260 | 116,731 | | | |

| | 68.100 | 69.673 | HAVANNA | NAPA ST, WA | M1 | East | 22.7158 | 1.573 | 45,162 |
|----|---------|---------|-----------------------|-------------------------------|------|--------------|--------------------|----------------|------------------|
| | 00.100 | 07.073 | STREET, WA | NAIASI, WA | IVII | | | | |
| | | | | | | West | 41.1499 | 1.573 | 81,811 |
| | 68.100 | 69.673 | HAVANNA STREET, WA | NAPA ST, WA | M2 | East | 22.7158 | 1.573 | 45,162 |
| | | | | | | West | 41.1499 | 1.573 | 81,811 |
| | 69.673 | 69.697 | NAPA ST, WA | ERIE, WA | M1 | East | 22.7158 | 0.024 | 689 |
| | | | | | | West | 41.1499 | 0.024 | 1,248 |
| | 69.673 | 71.250 | NAPA ST, WA | END STATE, WA | M2 | East | 21.1642 | 1.577 | 42,184 |
| | | | | | | West | 39.9160 | 1.577 | 79,560 |
| | 69.697 | 71.250 | ERIE, WA | END STATE, WA | M1 | East West | 21.1427 39.8989 | 1.553 1.553 | 41,500 78,315 |
| | | | | | | West | 37.0707 | 1.555 | 76,313 |
| | | | | | | | | | |
| 46 | 0.000 | 1.104 | SPOKANE, WA | SUNSET JCT, WA | M1 | East | 21.1101 | 1.104 | 29,456 |
| | | | | | | West | 39.7556 | 1.104 | 55,473 |
| | 0.000 | 1.104 | SPOKANE, WA | SUNSET JCT, WA | M2 | East West | 21.1101 39.7556 | 1.104 1.104 | 29,456 |
| | 1 104 | 1 114 | EACHENDER WA | The gare and | 1.50 | East | | | 55,473 |
| | 1.104 | 1.114 | EAST EMPIRE, WA | END SUB, WA | M0 | West | 25.7373 1.8260 | 0.010 0.010 | 325 23 |
| | 1.114 | 3.898 | BEGIN SUB, WA | WEST EMPIRE, WA | MO | East | 25.7373 | 2.784 | 90,562 |
| | 1.114 | 3.070 | BLOIN SCB, WA | WEST EMITIKE, WIT | WIO | West | 1.8260 | 2.784 | 6,425 |
| | 3.898 | 8.971 | WEST EMPIRE, WA | MARSHALL, WA | M0 | East | 25.7373 | 5.073 | 165,022 |
| | | | | | | West | 1.8243 | 5.073 | 11,697 |
| | 8.971 | 11.785 | MARSHALL, WA | LAKESIDE JCT, WA | M0 | East | 25.8467 | 2.814 | 91,927 |
| | | | | | | West | 1.9776 | 2.814 | 7,034 |
| | 11.785 | 19.816 | LAKESIDE JCT, WA | EAST BABB, WA | M0 | East | 27.7017 | 8.031 | 281,183 |
| | | | | | | West | 66.8079 | 8.031 | 678,127 |
| | 19.816 | 21.520 | EAST BABB, WA | WEST BABB, WA | M0 | East | 27.5613 | 1.704 | 59,359 |
| | | | | | | West | 66.9859 | 1.704 | 144,267 |
| | 21.520 | 29.704 | WEST BABB, WA | EAST FISHTRAP, WA | M0 | East West | 27.5613 | 8.184 | 285,088 |
| | 20.704 | 20.206 | | | | | 66.9859 | 8.184 | 692,888 |
| | 29.704 | 30.306 | EAST FISHTRAP, WA | LINCOLN County, Washington | M0 | East | 27.5612 | 0.602 | 20,977 |
| | | | | | | West | 66.9860 | 0.602 | 50,983 |
| | | | | | | | | | |
| 47 | 365.382 | 365.848 | UP JCT, WA | LAKESIDE JCT., WA | M0 | East | 0.2271 | 0.466 | 134 |
| | | | | WA | | West | 6.7129 | 0.466 | 3,954 |
| | 365.848 | 367.110 | SCRIBNER, WA | UP JCT, WA | M0 | East | 2.2054 | 1.262 | 3,518 |
| | | | | | | West | 65.1715 | 1.262 | 103,952 |
| | 367.110 | 371.434 | EAST OVERLOOK, | WEST OVERLOOK, | M0 | East | 2.1796 | 4.324 | 11,912 |
| | | | WA | WA | | West | 65.1483 | 4.324 | 356,043 |
| | 371.434 | 375.121 | LATAH JCT, WA | END SUB, WA | M0 | East | 2.1796 | 3.687 | 10,157 |
| | | | • | | | West | 65.1482 | 3.687 | 303,591 |
| | 375.121 | 375.122 | BEGIN SUB, WA | EAST OVERLOOK, | M0 | East | 2.1796 | 0.001 | 3 |
| | | | | WA | | West | 65.1482 | 0.001 | 82 |
| | | | | | | | | | |

| 376 | 13.776 | 26.410 | BEGIN STATE, WA | DEER PARK, WA | M0 | East West | 1.2482 2.1500 | 12.634 12.634 | 19,931 34,332 |
|-----|--------|--------|-----------------|-------------------------------|----|--------------|------------------|------------------|------------------|
| | 26.410 | 30.613 | DEER PARK, WA | STEVENS County, Washington | M0 | East | 1.2482 | 4.203 | 6,630 |
| | | | | vi usimigion | | West | 2.1498 | 4.203 | 11,419 |

SPOKANE County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage

7,305,886 111.6

SPOKANE County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 77.29 | 9.6 | 5.29 | 82.58 |
| Carbon Monoxide | 27.4 | 220.60 | 27.4 | 15.10 | 235.70 |
| Nitrogen Oxides | 172.5 | 1388.81 | 172.5 | 95.05 | 1483.86 |
| Particulates | 6 | 48.31 | 6 | 3.31 | 51.61 |
| Sulfur Dioxide | 16.3 | 131.23 | 16.3 | 8.98 | 140.21 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

STEVENS County, Washington

| | | | Locomotive Fuel Ra | 79: | 1.2 | | | | |
|-----------------|------------------|----------------|-------------------------------|-----------------------------|-------|-----------|--------------------------|----------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 376 | 30.613 | 32.000 | SPOKANE County, Washington | MP 32, WA | M0 | East | 1.2482 | 1.387 | 2,189 |
| | | | | | | West | 2.1498 | 1.387 | 3,770 |
| | 32.000 | 38.190 | MP 32, WA | EAST LOON LAKE, WA | M0 | East | 1.2482 | 6.190 | 9,765 |
| | | | | | | West | 2.1498 | 6.190 | 16,819 |
| | 38.190 | 38.670 | EAST LOON LAKE, WA | WEST LOON LAKE, WA | M0 | East | 1.2477 | 0.480 | 757 |
| | | | | | | West | 2.1493 | 0.480 | 1,304 |
| | 38.670 | 47.000 | WEST LOON LAKE, WA | MP 47, WA | M0 | East | 1.2470 | 8.330 | 13,129 |
| | | | | | | West | 2.1486 | 8.330 | 22,621 |
| | 47.000 | 56.360 | MP 47, WA | EAST VALLEY, WA | M0 | East | 1.2470 | 9.360 | 14,752 |
| | | | | | | West | 2.1485 | 9.360 | 25,417 |
| | 56.360 | 57.220 | EAST VALLEY, WA | WEST VALLEY, WA | M0 | East | 1.1880 | 0.860 | 1,291 |
| | | | | | | West | 1.8323 | 0.860 | 1,992 |
| | 57.220 | 61.000 | WEST VALLEY, WA | MP 60, WA | M0 | East | 1.1766 | 3.780 | 5,621 |
| | | | | | | West | 1.7709 | 3.780 | 8,461 |
| | | | | | | | | | |
| 377 | 8.442 | 10.932 | FERRY County, Washington | FERRY County, Washington | M1 | East | 0.0000 | 2.490 | 0 |
| | | | C | Ü | | West | 0.0000 | 2.490 | 0 |

STEVENS County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|--|---------|---------------------|------------------------|------------------------|
| POLLUTANT | POLLUTANT EPA Emission Factor Emissions in Tons/Year | | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 1.35 | 9.6 | 0.00 | 1.35 |
| Carbon Monoxide | 27.4 | 3.86 | 27.4 | 0.00 | 3.86 |
| Nitrogen Oxides | 172.5 | 24.31 | 172.5 | 0.00 | 24.31 |
| Particulates | 6 | 0.85 | 6 | 0.00 | 0.85 |
| Sulfur Dioxide | 16.3 | 2.30 | 16.3 | 0.00 | 2.30 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

THURSTON County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

| Locomotive Fuel Rate Per GTM/Gallon: 791.2 | | | | | | | | | | |
|--|------------------|----------------|------------------------------|-----------------------------|-------|-----------|--------------------------|----------------------|---------------------|--|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons | |
| 52 | 25.380 | 37.397 | PIERCE County, Washington | PLUMB, WA | M1 | East | 9.5609 | 12.017 | 145,214 | |
| | | | | | | West | 13.8212 | 12.017 | 209,921 | |
| | 25.380 | 37.397 | PIERCE County, Washington | PLUMB, WA | M2 | East | 9.5609 | 12.017 | 145,214 | |
| | | | | | | West | 13.8212 | 12.017 | 209,921 | |
| | 37.397 | 49.501 | PLUMB, WA | WABASH, WA | M1 | East | 9.4639 | 12.104 | 144,781 | |
| | | | | | | West | 13.7872 | 12.104 | 210,920 | |
| | 37.397 | 49.501 | PLUMB, WA | WABASH, WA | M2 | East | 9.4639 | 12.104 | 144,781 | |
| | | | | | | West | 13.7872 | 12.104 | 210,920 | |
| | 49.501 | 50.569 | WABASH, WA | LEWIS County, Washington | M1 | East | 9.4635 | 1.068 | 12,771 | |
| | | | | | | West | 13.7871 | 1.068 | 18,606 | |
| | 49.501 | 50.569 | WABASH, WA | LEWIS County, Washington | M2 | East | 9.4646 | 1.068 | 12,773 | |
| | | | | S | | West | 13.7924 | 1.068 | 18,613 | |

THURSTON County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage

1,484,438

25.2

THURSTON County

| | LINE HAUL LOCO | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 15.70 | 9.6 | 0.00 | 15.70 |
| Carbon Monoxide | 27.4 | 44.82 | 27.4 | 0.00 | 44.82 |
| Nitrogen Oxides | 172.5 | 282.18 | 172.5 | 0.00 | 282.18 |
| Particulates | 6 | 9.82 | 6 | 0.00 | 9.82 |
| Sulfur Dioxide | 16.3 | 26.66 | 16.3 | 0.00 | 26.66 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

WALLA WALLA County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

Locomotive Fuel Rate Per GTM/Gallon: 791.2

To Fuel Use Line From То From Track Direction Distance Density Segment Milepost Milepost Station Station Million in Miles in Gallons GT

WALLA WALLA County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage

0 0.0

WALLA WALLA County

2008 Estimation of BNSF Locomotive Emissions

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|-------------------------------------|---------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor Emissi in Tons/ | | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 0.00 | 9.6 | 0.00 | 0.00 |
| Carbon Monoxide | 27.4 | 0.00 | 27.4 | 0.00 | 0.00 |
| Nitrogen Oxides | 172.5 | 0.00 | 172.5 | 0.00 | 0.00 |
| Particulates | 6 | 0.00 | 6 | 0.00 | 0.00 |
| Sulfur Dioxide | 16.3 | 0.00 | 16.3 | 0.00 | 0.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

WHATCOM County, Washington

| | | | Locomotive Fuel Ra | te Per GTM/Gallon: | 79 | 1.2 | | | |
|-----------------|------------------|---|------------------------------|-------------------------------|--------------|------------------|--------------------------|-------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 50 | 86.845 | 92.201 | SKAGIT County, Washington | SOUTH SOUTH BELLINGHAM, WA | M0 | East | 11.7984 | 5.356 | 79,872 |
| | | | | | | West | 8.4436 | 5.356 | 57,161 |
| | 92.201 | 97.180 | BELLINGHAM, WA | SOUTH SOUTH BELLINGHAM, WA | M0 | East | 11.7974 | 4.979 | 74,241 |
| | | | | | | West | 8.4415 | 4.979 | 53,122 |
| | 97.180 | 106.400 | SOUTH FERNDALE, WA | BELLINGHAM, WA | M0 | East | 12.4083 | 9.220 | 144,596 |
| | 106 400 | | | | | West | 9.1542 | 9.220 | 106,676 |
| | 106.400 | 108.196 | SOUTH FERNDALE, WA | NORTH FERNDALE, WA | M0 | East | 12.5147 | 1.796 | 28,408 |
| | | | | | | West | 9.1149 | 1.796 | 20,691 |
| | 108.196 | 111.810 | NORTH FERNDALE, WA | CUSTER, WA | M0 | East | 12.5147 | 3.614 | 57,164 |
| | | | | | | West | 9.1149 | 3.614 | 41,635 |
| | 111.810 | 115.056 | CUSTER, WA | SOUTH SWIFT, WA | M0 | East West | 10.1038 7.4481 | 3.246 3.246 | 41,452 30,557 |
| | 115.056 | 115.056 116.787 SOUTH SWIFT, WA NORTH SWIFT | NORTH SWIFT, WA | M0 | East West | 9.8286 7.2582 | 1.731 1.731 | 21,503 15,880 | |
| | 114 505 | 110 504 | | | | | | | |
| | 116.787 | 119.594 | NORTH SWIFT, WA | BLAINE, WA | M0 | East West | 9.8031 7.2349 | 2.807 2.807 | 34,779 25,668 |
| 399 | 19.760 | 25.305 | HAMPTON, WA | END STATE, WA | M0 | East West | 0.0261 0.0226 | 5.545 5.545 | 183 158 |
| 403 | 98.241 | 103.362 | SKAGIT County, Washington | WEST ACME, WA | M0 | East | 0.6134 | 5.121 | 3,970 |
| | | | C | | | West | 0.7563 | 5.121 | 4,895 |
| | 103.362 | 111.253 | WEST ACME, WA | WEST DEMING, WA | M0 | East | 0.6136 | 7.891 | 6,120 |
| | | | | | | West | 0.7557 | 7.891 | 7,537 |
| | 111.253 | 120.850 | WEST DEMING, WA | WEST NOOKSACK, WA | M0 | East | 0.6432 | 9.597 | 7,802 |
| | | | | | | West | 0.8058 | 9.597 | 9,774 |
| | 120.850 | 127.187 | WEST NOOKSACK, WA | END STATE, WA | M0 | East | 0.6759 | 6.337 | 5,414 |
| | | | | | | West | 0.8458 | 6.337 | 6,774 |
| 418 | 0.000 | 5.334 | INTALCO, WA | ARCO, WA | M0 | East West | 2.8415 2.1103 | 5.334 5.334 | 19,156 14,227 |
| | 5.334 | 5.900 | ARCO, WA | ELLIOTT, WA | M0 | East West | 2.7914 2.5652 | 0.566 0.566 | 1,997 1,835 |

| | 5.900 | 8.800 | ELLIOTT, WA | CHERRY POINT, W | A M0 | East West | 2.7914 2.5652 | 2.900 2.900 | 10,231 9,402 |
|-----|--------|----------|-------------|-----------------|-----------|--------------|---|----------------|-----------------|
| 614 | 0.000 | 5.101 | HAMPTON, WA | END STATE, WA | M0 | East West | 0.0226 0.0261 | 5.101 5.101 | 146 168 |
| WHA | тсом с | ounty, W | ashington | Estimated 200 |)8 Line I | | ive Fuel Consumpti timated 2008 Main | | 943,193 81.1 |

WHATCOM County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|--|---------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor Emissions in Tons/Ye | | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 9.98 | 9.6 | 2.12 | 12.09 |
| Carbon Monoxide | 27.4 | 28.48 | 27.4 | 6.04 | 34.52 |
| Nitrogen Oxides | 172.5 | 179.30 | 172.5 | 38.02 | 217.32 |
| Particulates | 6 | 6.24 | 6 | 1.32 | 7.56 |
| Sulfur Dioxide | 16.3 | 16.94 | 16.3 | 3.59 | 20.53 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year.

The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9. The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

WHITMAN County, Washington

ESTIMATION OF FUEL CONSUMPTION FOR LINE HAUL

| | | | Locomotive Fuel R | ate Per GTM/Gallon: | 79 | 1.2 | | | |
|-----------------|------------------|----------------|-------------------------------|------------------------|-------|-----------|--------------------------|----------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 384 | 25.040 | 84.036 | SPOKANE County, Washington | LATAH County, Idaho | M1 | East | 0.0000 | 58.995 | 0 |
| | | | Ü | | | West | 0.0000 | 58.995 | 0 |

WHITMAN County, Washington

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons Estimated 2008 Main Line Mileage

59.0

WHITMAN County

| | LINE HAUL LOCON | MOTIVES | YARD LOCOMOTIVE | TOTAL | |
|-----------------|---------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 0.00 | 9.6 | 0.00 | 0.00 |
| Carbon Monoxide | 27.4 | 0.00 | 27.4 | 0.00 | 0.00 |
| Nitrogen Oxides | 172.5 | 0.00 | 172.5 | 0.00 | 0.00 |
| Particulates | 6 | 0.00 | 6 | 0.00 | 0.00 |
| Sulfur Dioxide | 16.3 | 0.00 | 16.3 | 0.00 | 0.00 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year.

The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study.

The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

YAKIMA County, Washington

| Locomotive Fuel Rate Per GTM/Gallon: 791,2 | | | | | | 1.2 | | | |
|--|------------------|----------------|------------------------------|--------------------------------|-------|-----------|--------------------------|----------------------|---------------------|
| Line Segment | From Milepost | To Milepost | From Station | To Station | Track | Direction | Density Million GT | Distance in Miles | Fuel Use in Gallons |
| 48 | 45.427 | 52.060 | BENTON County, Washington | MABTON, WA | M0 | East | 4.3801 | 6.633 | 36,720 |
| | | | | | | West | 6.3921 | 6.633 | 53,588 |
| | 52.060 | 69.420 | MABTON, WA | EAST TOPPENISH, WA | M0 | East | 4.3017 | 17.360 | 94,385 |
| | | | | | | West | 6.3099 | 17.360 | 138,448 |
| | 69.420 | 72.220 | EAST TOPPENISH, WA | WEST TOPPENISH, WA | | East | 4.3497 | 2.800 | 15,393 |
| | | | | | | West | 6.3900 | 2.800 | 22,614 |
| | 72.220 | 93.040 | WEST TOPPENISH, WA | EAST SELAH, WA | M0 | East | 4.3240 | 20.820 | 113,784 |
| | | | | | | West | 6.3683 | 20.820 | 167,578 |
| | 93.040 | 97.430 | EAST SELAH, WA | EAST POMONA, WA | M0 | East | 3.7939 | 4.390 | 21,051 |
| | | | | | | West | 5.6872 | 4.390 | 31,556 |
| | 97.430 | 99.060 | EAST POMONA, WA | WEST POMONA, WA | M0 | East | 3.7930 | 1.630 | 7,814 |
| | | | | | | West | 5.6781 | 1.630 | 11,698 |
| | 99.060 | 101.310 | WEST POMONA, WA | KITTITAS County, Washington | M0 | East | 3.7929 | 2.250 | 10,786 |
| | | | | | | West | 5.6772 | 2.250 | 16,144 |
| 49 | 0.000 | 1.850 | ELLENSBURG, WA | WEST ELLENSBURG, WA | | East | 3.8105 | 1.850 | 8,910 |
| | | | | | | West | 5.6822 | 1.850 | 13,286 |
| | 1.850 | 16.260 | WEST ELLENSBURG, WA | EAST BRISTOL, WA | | East | 3.8105 | 14.410 | 69,400 |
| | | | | | | West | 5.6822 | 14.410 | 103,489 |
| | 16.260 | 17.960 | EAST BRISTOL, WA | WEST BRISTOL, WA | M0 | East | 3.8105 | 1.700 | 8,187 |
| | | | | | | West | 5.6824 | 1.700 | 12,209 |
| | 17.960 23. | 23.880 | WEST BRISTOL, WA | EAST CLEELUM, WA | M0 | East | 3.8105 | 5.920 | 28,511 |
| | | | | | | West | 5.6828 | 5.920 | 42,520 |
| | 23.880 | 26.700 | EAST CLEELUM, WA | KITTITAS County, Washington | M0 | East | 3.7837 | 2.820 | 13,486 |
| | | | | | | West | 5.6423 | 2.820 | 20,110 |

YAKIMA County

| | LINE HAUL LOCOMOTIVES | | YARD LOCOMOTIVE | TOTAL | |
|-----------------|-----------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 11.23 | 9.6 | 0.53 | 11.76 |
| Carbon Monoxide | 27.4 | 32.06 | 27.4 | 1.51 | 33.57 |
| Nitrogen Oxides | 172.5 | 201.82 | 172.5 | 9.50 | 211.32 |
| Particulates | 6 | 7.02 | 6 | 0.33 | 7.35 |
| Sulfur Dioxide | 16.3 | 19.07 | 16.3 | 0.90 | 19.97 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year. The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study. The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.

75,044,206 1,600.5

BNSF Railway Company

2008 Estimation of BNSF Locomotive Emissions For Washington Counties 75,044,206

Estimated 2008 Line Haul Locomotive Fuel Consumption in Gallons

ALL COUNTIES

Estimated 2008 Main Line Mileage

1,600.5

| | LINE HAUL LOCOMOTIVES | | YARD LOCOMOTIVE | TOTAL | |
|-----------------|-----------------------|------------------------|---------------------|------------------------|------------------------|
| POLLUTANT | EPA Emission Factor | Emissions in Tons/Year | EPA Emission Factor | Emissions in Tons/Year | Emissions in Tons/Year |
| | g/gal | | g/gal | | |
| Hydrocarbon | 9.6 | 793.91 | 9.6 | 41.79 | 835.70 |
| Carbon Monoxide | 27.4 | 2265.94 | 27.4 | 119.27 | 2385.21 |
| Nitrogen Oxides | 172.5 | 14265.53 | 172.5 | 750.88 | 15016.40 |
| Particulates | 6 | 496.19 | 6 | 26.12 | 522.31 |
| Sulfur Dioxide | 16.3 | 1347.99 | 16.3 | 70.95 | 1418.94 |

^{*}The BNSF estimates the average BNSF yard locomotive consumes 50,000 gallons fuel per year.

The BNSF estimate is based on a 2003 BNSF yard locomotive fuel consumption study.

The "EPA Emission Factor" data used in estimating the emissions is from EPA420-F-97-051, Table 9.

The SOx Emission Factor is based on sulphur content of fuel purchased per BNSF fuel specifications.